UNITED EXPRESS INTERNATIONAL CO.

P.O Box 1617, 81027 Farwaniya, Kuwait. Tel.: 4750757 / Fax: 4758757;
Email: info@ueikwt.com , www.ueikwt.com

COMPANY PROFILE

INDEX

1. Civil

2. Electromechanical

3. Security

CIVIL

The Company :

United Express International was founded in the year 2006, before the company was Express United Co. established in 1984 and has lead its way to a continuous success, offering its clients with best of Service and Support with a Trading and Contracting which is based on the customer need and future expandability.

Mission

To achieve market leadership in Kuwait through customer-focused services in the field of Installations and Maintenance
To earn total Customer Satisfaction and Belief in our Contracting works.
To deliver top quality Security Solution
To develop long term relations with all Customers & Suppliers

Vision

United Express International envisions market leadership through a customer-focused company delivering top quality engineering through innovation and dedicated workmanship. We wish to expand our business in the region by dynamic leadership backed by superior technical solutions, products and services.

UEI values:

- Customer satisfaction
- Quality Control/Quality Assurance
- Trust and Integrity
- Teamwork
- Professionalism
- Leadership
- Innovation

Infrastructure

Highly skilled and resourceful employees are the major assets of UEI. A team of more than 15 strong in our civil section, UEI is ever growing by numbers and departments. We are bound by a work culture of “One Family-One Purpose” -the corporate ethos that we strongly believe in. We have over 4 vehicles –a mix of light, medium and heavy. We have 1 warehouse & I workshop. With massive expansion and procurement of newer equipments we have been regularly providing training on operations, technical up-gradation and quality management.

Full range of services in the field of:

- Petroleum services
- Electrical
- Low Voltage Systems
- Building Integrated Services
- And Associated Industries

Spirit of partnership

Being a reputed company we don't assume the role of contractors, at UEI believes in a spirit of partnership. Capitalizing on the opportunities currently offered by Kuwait's largest expansion in almost all areas, UEI has seen a massive growth in its strategic area of business in installation and maintenance of capital projects by Build, Operate and Transfer(B.O.T) and Build, Operate and Own(B.O.O), based on sound principles of sharing and collaboration with our clients and suppliers.

Key Benefits of UEI contracts:

- Professional team with excellent technical experience
- Fully equipped company with sound financial background
- Procurement from internationally reputed manufacturers and agencies
- Dedicated repair technicians
- Prompt service
- Preventive maintenance
- Compliance with international safety standards and guidelines
- Reliable warranties

Our Divisions

- UEI Trading & Contracting Division
- Computer Point Centre
- Global Center for Security and Safety Equipments.

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
16الفروانيه,مجمع الخرينج الدور الثالث مكتب FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

UEI Trading and Contracting Co.

Our Services and Products

1. Services

   All Contracting works regarding **Civil, Marble and Granite works, Aluminum & Carpentry works, Gypsum works & Painting.**

2. Products

- Marbles and Granite
- Epoxy painting
- Roofs and Floor drain in various metals Heavy & light
- Electrical switches and sockets
- G.I and PVC pipes and accessories
- Floor Drains in S.S for Bathrooms
- Door handles for Glass and wooden Doors.
- Galvanized Pipe hangers & U. Clamps
- Plastic and steel Fishers
- Threaded Rods
- Brass Chrome Plated Fittings & Connectors –Plumbing
- Plastic & Chrome P. Traps for Kitchen Sinks
- No- Hub Coupling for Cast Iron Pipes
- Shower Pipes
- Push and Pull Handles, Push Plates
- Door knobs and handles
- Handle for Mortice Lock
- Door closers Covers
- Door Steps
- Door Signs Plates and Labels
- Trolley in SS
- Resurfacing and re-glazing of all sanitary and ceramic products.
- Commercial & High Grade Cutlery
- Serving dishes in S.S
- Plastic Bottles and containers
- Liquid Soap for Kitchen and Industrial use
- Phenol for Floor cleaning

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
16الفروانيه,مجمع الخرينج الدور الثالث مكتب FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

Manufacturing of Dies and Tools (outsourced from India)

For all kinds of metals
For Plastic Injection mould
For Plastic Blow Moulds

Precision parts (outsourced from India)
Pressure Fittings (Outsourced from India)

Civil Works

All Kinds of civil works;

- Ceiling
- Partition
- Interior Decoration
- Flooring
- Carpentry

Aluminum Division

- Aluminum cladding works
- All types of Aluminum Rolling Shutters
- Manual & Electrical with Remote Control
- All type of Aluminum Section doors and windows
- Kitchen Cabin
- Glass Fixing
- Hand Rails
- Ceiling
- Aluminum and Wood Partitions

Marble Division

We are supplying and installing the Marble and Granite

Thanking you for your time to read our Company Profile and please feel free to give any suggestions on the above given number.

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
الفروانيه,مجمع الخرينج الدور الثالث مكتب16 FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

Join the UEI Family

Our measure of success is not quantified just in numbers, but the long terms growth of business partnership – one customer at a time. When you are in the contracting business, you need a partner that has years of contracting experiences and provide solid support to its customers. Please come and join the UEI.

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
الفروانيه,مجمع الخرينج الدور الثالث مكتب16 FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

ELECTRO MECHANICAL

Introduction

United Express International was founded in the year 2006, before the company was Express United Co. established in 1984 and has lead its way to a continuous success, offering its clients with best of Service and Support with a Trading and Contracting which is based on the customer need and future expandability.

.

The company was set up originally to carry out the trading and contracting business in refrigeration and air conditioning. Of late United Express International has transformed as a reputed prime Electro mechanical contractor/ subcontractor in Kuwait on high value projects with an emphasis on the “Design-Build-Maintain” projects with scope for total engineering solutions and value added engineering services.

United Express International Co. is well equipped with full range of necessary tools and equipment for its workshops, machine shops and duct shops, supplied by reputed manufacturers around the world.

The company has a paid up capital of 250,000 Kuwait Dinars

Dynamic Management

United Express International Co. is managed by highly experienced professionals who have invaluable expertise in their respective field of specialties. The core of engineering team at United Express International is a pool of thorough-bread professionals who always like to excel in whatever they do.

The top management consists of industry leaders who have built and managed other companies in Kuwait. They have the right business background and earned highest level of recognition in the corporate world through successful management. The Chairman is Mr. Melfi Al Mutairi.

Mission Statement

- To achieve market leadership in Kuwait through customer-focused services in the filed of Electromechanical Installation & Maintenance.

- To develop long term relations with all customers & suppliers – including ministries, builders, engineers and contractors.

- To leverage our strength along with our contractors and suppliers for better productivity cycles.

- To utilize the latest technologies to provide the highest quality of customer service in the industry.

- To deliver top quality engineering by innovation.

Vision

United Express International envisions market leadership through a customer-focused company delivering top quality engineering through innovation and dedicated workmanship. We wish to expand our business in the region by dynamic leadership backed by superior technical solutions ,products and services.

UEI values:

- Customer satisfaction
- Quality Control/Quality Assurance
- Trust and Integrity
- Teamwork
- Professionalism
- Leadership
- Innovation

Infrastructure

Highly skilled and resourceful employees are the major assets of UEI. A team of more than 25 strong, UEI is ever growing by numbers and departments. We are bound by a work culture of “One Family-One Purpose” -the corporate ethos that we strongly believe in. We have over 5 vehicles –a mix of light and medium and heavy. We also have a range of cranes and earthmovers for heavy lift operations. We have 1 warehouses, separate workshops for ducting, plumbing, electromechanical services.

Full range of services in the field of:

- Petroleum services
- Air conditioning
- Refrigeration
- Electrical
- Mechanical
- Firefighting
- Civil Contracting
- Building Integrated Services
- And Associated Industries

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
16الفروانيه,مجمع الخرينج الدور الثالث مكتب FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

Spirit of partnership

Being a reputed company UEI believes in a spirit of partnership. Capitalizing on the opportunities currently offered by Kuwait's largest expansion in almost all areas, UEI has seen a massive growth in its strategic area of business in installation and maintenance, based on sound principles of sharing and collaboration with our clients and suppliers.

Design Department

UEI has the total capability, from concept stage to detailed design- whether you require a most modern electrical fittings, or plumbing for your new project or you need new HVAC or Refrigeration systems, or modifications of existing systems. You will see a detailed 'as-built' engineering drawings before actual erection begins.

Design-build installations

- We take full responsibility for successful commissioning.
- New installations
- Up gradation of existing units
- On site evaluations
- Customer-friendly pricing
- Guaranteed design and installation
- Operation and maintenance training
- Certified for energy conservation
- Computer aided engineering and drafting
- Recommendations for improvements and savings
- Custom built design and installation

Key Benefits of UEI contracts:

- Professional team with excellent technical experience
- Fully equipped company with sound financial background
- Procurement from internationally reputed manufacturers and agencies
- Dedicated repair technicians
- Preventive maintenance
- Compliance with international safety standards and guidelines
- Reliable warranties

HVAC

Coverage

Our services by installation and maintenance operation – large and small in capacities are spread all over Kuwait , covering many fields including – petroleum industries , chemical plants , hospitals , schools , institutions , mosques , auditorium , residential and commercial complexes , shopping malls , health

clubs , hotels , offices , national assembly building , ministries buildings , warehouses , … and many more.

DEDICATED TEAM

Electromechanical

With through experience of over 9 years in critical. UEI has the expertise in offering right mix of interdisciplinary skills that suit any project requirements. Our engineers study the job at hand and offer right solutions and optimum budget. Whether it's light, medium or heavy duty –most of the tools and supplies are from our own warehouse or from our subsidiaries so that they meet the job requirements perfectly and reliability is accounted at all times.

FIREFIGHTING AND PLUMBING

Firefighting

UEI has been providing reliable installation and maintenance of firefighting system for some of the reputed companies in Kuwait. It needs high level of technical expertise and deep understanding of the complexities involved in providing a fail-proof fire protection to a large multi- storied complex. We are employing most modern methods and equipment in the field of firefighting to meet the demanding situations.

Plumbing

Our contracting services exclusively for plumbing, or along with electromechanical works, for new installations as well as existing buildings, ensure reliable, efficient and cost –effective plumbing operation resulting maximum productivity throughout your building's entire life cycle. We provide on-site operations and maintenance services giving you full –time dedicated professional assistance.

Smoke Detection and Fire Alarm System

UEI offers the complete package for design, installation, monitoring system and maintenance for firefighting. Backed by our periodic checking, maintenance and replacements we make sure that your work place is safe and sound at all times.

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
الفروانيه,مجمع الخرينج الدور الثالث مكتب16 FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

Equipment is fully tested for all technical requirements before it arrives at your facility.

Safety Standards

UEI recognizes that health and safety are essential for the welfare and moral of human kind and also important for contributing to corporate growth. In order to ensure health and safety of all personnel from top management to own follows the codes of conduct for safety.

- Recognize every manager, employee has the duty and responsibility for safety
- Enhance safety consciousness and knowledge through continuous education and training.
- Access every possibility of accidents and take all precautionary measures against such accidents.
- Ensure hazard free and clean environment.
- Zero defect and zero accident.

Security Division

FULL RANGE OF SERVICES IN THE FIELD OF:

Our security solution pools in every area of concern related to :

- Barriers
- Locks
- Card Readers
- Biometric Scanners
- Access Control Systems
- Passive IR Detectors
- Beam Detectors
- Panic Alarms
- Push Buttons
- Cards
- PABX
- IPTV/Phone
- Sound Systems
- CCTV

Integrating Systems:

The future of enterprise security has long been summed up in one word: Convergence. The building security you encounter at the front desk when you swipe your card in each morning will no longer be a separate system from the security you encounter when you sit down at your desk and log-on to your computer.

The system integration is done in such a way that each system compliments the other and central control and monitoring from one computer or network of computers is possible.

Barriers:

A complete range of automatic or manual gates and barriers, boom barriers, motorized trackless gates and surface mounted road blockers are offered to compliment the range of electronic security system offered by us. These barriers may have card, ticketing or token operation enabling automatic fee collection. A range of hydraulic, heavy-duty roadblocks are also available to protect strategic buildings and other facilities from terrorist attacks. These systems can be operated with a card access control or other pass systems including vehicle proximity sensors.

Surveillance (CCTV) Systems

Closed Circuit Television (CCTV) Systems are the Backbone of your building security. These are widely used for monitoring of strategic location within and around a building or within a large campus.

At UEI we have installed a number of Engineered Surveillance Systems involving CCTV cameras, monitors, multiplexers, video matrix switches and other variety of peripherals including remote controlled and audio tracking pan-tilt zoom cameras.

The largest system installed till date employs more than 500 cameras, multiple control and monitoring centers, computerized CCTV management system and other peripherals.

Here are a number of reasons why CCTV surveillance system any prove to be just what your building wants:

Cost Effective: CCTV provides continuous surveillance, 24 hours a day, 7 days a week, 365 days a year. It outperforms monitors and minimizes the danger of human error. What's more, it adds an extra dimension to your peace-of-mind; since you are assured that your valuable assets are monitored effectively.

Provides a safe and secure environment: Video tape recordings provide a foolproof back-up for your security needs. these tapes are valuable records of any intrusion or incidents. Moreover these provide a visual verification of the actual events. CCTV helps to keep out unwanted visitors.

CCTV works not only in providing safety to your assets but it instills confidence in the employees. Accidents, if any, can be detected early and hence one can safely say that CCTV works in the interest of everyone.

Deters Crime and Vandalism: Individuals whose intentions may not be honorable will find CCTV intimidating. It acts as a good deterrent.

Productivity Boosters: CCTV discourages undesirable activities. Gains of 15% or more are not uncommon. CCTV system creates a conducive work climate for honesty and reductions of 50% in shrinkage are quite typical.

Your CCTV needs whether small or large we, at Global Center for Safety and Security have a solution.

Fire Detection/Extinguishing systems

Our core team of professionals leaves nothing to chance when it comes to our Fire and Detection System. This sophisticated system comprising of detection devices, control units, alarm sounders and for larger systems communication networks and control computers with graphical user interface is state-of-the-art.

Our engineers study the latest codes and industry trends, and work with manufacturers who meet our stringent demands. At Global Center for Safety and Security we offer only the best and the accent is forever on providing a high quality system that significantly ensures maximum savings for our customers.

UEI recognize that large fire detection projects have particular requirements in respect of comprehensive and competent system engineering, project management and long-term support. In support of these vital requirements Global Center for Safety and Security has established effective management resources in engineering disciplines and client project management. Our client benefit from a range of system capabilities seldom available from a single source.

Security/Access Control System

Controlling the entry facility is the most basic and important requirement of a well-designed security system. This is called Access Control. Access Control provides the security personnel with valuable information as to who was granted or denied access and at which door and at what time.

Our Access Control Systems is an excellent security system for a simple office to a more sophisticated Airport Terminal or a University Campus that requires a larger number of entry control points. Our most advanced access control solutions can integrate with Time and Attendance Systems as well and support even your payrolls.

UEI is geared to provide your environment an integrated, secure and sophisticated solution.

Features:

Multi-site-Client / Server - LAN/WAN configuration.

Integrated MAPS & Badging.
Dial-up, TCP / IP, Multi controller architecture.
Global one-card migration paths.
Quality, confidence and consistency.

Intruder Alarm Systems:

The UEI offers yet another security system peripheral - The Intruder Alarm systems. These systems ensure foolproof security at homes, offices or industrial establishments.

The basic function of these systems is to protect your environment not only from crime but also from unforeseen events and disasters. Our systems provide your security personnel and facility managers with up-to-date information in the ever-changing environment.

Central monitoring is done through either the standard dial-up telephone lines or the newer intranet monitoring systems now available in campus wide systems.

Whether you have a very complex campus environment or a shopping mall or a smaller card room, our Intruder Alarm System will meet all your complex needs. The system includes an intrusion door control and monitoring, panic alarms, movement detector, vibration sensors and perimeter protection.

Public Address/Audio Visual Systems

Public Address System is a pre-requisite for effective communication within a facility. The UEI not only offers the latest of technologies available today in background music system but it also offers paging and intercom systems that can be integrated into a security system for door control, access control and cash control in your facilities.

Our Audio Management Systems are individually configured to match the appropriate facility. We design and build facilities for customers with customize control and switching panels, and integrate these to Fire Alarm and Voice Evacuation Systems and integrated security systems.

We carry extensive on-site surveys to understand your needs. Depending on these needs we offer you the appropriate solution.

Our Audio Visual Systems for meeting rooms, board rooms, training centers and auditoriums are appropriately useful in order to provide customized solutions for meeting your communication needs.

The UEI works with a number of known names from around the globe to offer you the latest and most appropriate solutions.

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
الفروانيه,مجمع الخرينج الدور الثالث مكتب16 FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

These systems find applications in organizations related to retail, municipal or gaming. Whenever you need to communicate, think of us.

UEI combines well over 24 years experience and background knowledge to provide the best possible service from its divisions of audio, components, datacoms, security and engineering.

An efficient communication system improves efficiency in any organization, thus achieving cost-reduction in operations, manufacturing etc.

Audio Visual Systems provide effective communication means in training sessions, corporate presentations, product launching etc.

INSTALLATIONS

Installations

UEI has the capacity to design, supply, install and commission complete systems. We provide a comprehensive range of services besides customized solutions by making a thorough study of your requirements. We can design & build to meet particular specifications or, alternatively, supply proprietary equipment from any of the major manufacturers.
Installations are performed by our professional team, maintaining the highest level of quality workmanship throughout all stages of project development using our in-house quality assurance plan, including on-site commissioning and client staff training.

Finance And Administration

Managing over 120 man- hours on a daily basis, consisting of several specialties and skills at an optimum output levels all the time; UEI is one of the fastest growing companies in Kuwait. Excellent reputation for quality of work and solid financial background managed by professional team, UEI has gained a leadership in contracting works with ever growing client list with wide and varied mix of projects in its portfolio.

Building Integration Solutions Divisions

- Intruder Alarm & Smoke Detection Systems- Wired and Wireless
- Closed Circuit TV Systems- Wired and Wireless
- Building/Home Automation Systems
- Time Attendance Systems
- Audio/Video Intercom Systems
- Parking Control Systems
- Access/Electronic Locking Control Systems

Join the UEI Family

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
الفروانيه,مجمع الخرينج الدور الثالث مكتب16 FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

For over a decade, UEI has brought many of our partners to success through our aggressive marketing programs, road shows, exhibitions and technical seminars. Our measure of success is not quantified just in numbers, but the long terms growth of business partnership – one customer at a time. When you are in the contracting business, you need a partner that has years of contracting experiences and provide solid support to its customers. Please come and join the UEI.

Reference List of Customers & Projects

- Extension of water cooling plant
  (Electrical, Fire Alarm)
- Renovation of Petrol Station
  (Electrical, Fire Alarm, Sound)
- Installation of Diesel Gen. at Mina Al Zoor
  Getty Oil Co. (Electrical)
- Riqa Petrol Station
  (Electrical, Fire Alarm, Sound)
- Santa Fe. Corp. Staff camp at mina Abdullah
  (Electrical, Tele)
- Sabahiyah Nursery Project
  (Electrical)
- Aggregate Concrete Factory- Mina Abdullah
  (Electrical, Fire Alarm, Tele)
- Custom Complex
  (Data, Tele., Network)
- Al Dayeha Co op Society
  (Electrical, Tele, Fire Alarm, CCTV, Sound)
- Kindergardens 3No.
  (Electrical, Fire Alarm, Tele, Sound)
- Secondary school, Salam 5
  (HVAC, Plumbing)

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
16الفروانيه,مجمع الخرينج الدور الثالث مكتب FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

- Secondary School, Salam 3
  (HVAC, Plumbing)

- Al Rasi Hospital
  (HVAC, Fire Fighting, Plumbing)

- Madhakhi real estate company
  (HVAC, Fire Fighting, Plumbing)

- Baddai & Musairie Trad. & Cont. Co.
  (HVAC, Fire Fighting)

- Dunia Khazal Establishment
  (HVAC & Elec. Works)

CURRENT PROJECTS :

- Al Kout Factory 124
  (Elec., CCTV, Fire Alarm, PABX, Access Control, Fire Alarm, Fire Fighting)

- Al Kout Factory 132
  (Elec., CCTV, Fire Alarm, PABX, Access Control, Fire Alarm, Fire Fighting)

- Central Sterilization Building, Al Sabah Hospital
  (Elec.)

- SOS (Kuwait Oil Company), 1241 Project
  (CCTV)

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
16 الفروانيه,مجمع الخرينج الدور الثالث مكتب FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

Security

Products & Services
CCTV Systems
Weapons/Explosion Detection
Banking Security Products
ID Badging
Attendance
Payroll System
Traffic Control
Anti Terrorist Barriers
Integrated Building Control
& Management System
Fire Detection
& Extinguishing Systems
UEI
Hotel Security
& Video Interactive System
Security
Access Control
Alarm Monitering
E-merging Technologies
Public Address
Audio Visual
Conference System
Retail Security
Article Surveillance System
Hospital Communications Systems
Bedhead Services

The Company:

United Express International was founded in the year 2006, before the company was Express United Co. established in 1984 and has lead its way to a continuous success, offering its clients with best of Service and Support with a Trading and Contracting which is based on the customer need and future expandability.

The main business of United Express International is focused on building scaleable and innovative **Trading & Contracting, Total Security & IT Solutions with Best of Service**.

The company has its share in the market in providing Low Voltage Systems & I. T. Solution by mobilizing "best of breed" technology with superior service that creates massive economic results to the clients. United Express International provides innovated open and flexible solutions of high-performance Electrical, CCTV, MATV, Public Address, Fire Alarm, Fire Fighting, Audio Visual, Time & Attendance computing, connectivity and internetworking infrastructure, Software solutions Web Solutions & Maintenance to all business who want the interoperability and freedom to choose the best solution for their specific needs.

Mission

To achieve market leadership in Kuwait through customer-focused services in the field of Installations and Maintenance
To earn total Customer Satisfaction and Belief in our Contracting works.
To deliver top quality Security Solution
To develop long term relations with all Customers & Suppliers

Vision

United Express International envisions market leadership through a customer-focused company delivering top quality engineering through innovation and dedicated workmanship. We wish to expand our business in the region by dynamic leadership backed by superior technical solutions ,products and services.

UEI values:

- Customer satisfaction
- Quality Control/Quality Assurance
- Trust and Integrity
- Teamwork
- Professionalism
- Leadership
- Innovation

Infrastructure

Highly skilled and resourceful employees are the major assets of UEI. A team of more than 20 strong, UEI is ever growing by numbers and departments. We are bound by a work culture of “One Family-One Purpose” -the corporate ethos that we strongly believe in..

Full range of services in the field of:

- Electrical
- Low Voltage Systems
- Building Integrated Services
- And Associated Industries

Spirit of partnership

Being a reputed company we don’t assume the role of contractors, at UEI believes in a spirit of partnership. Capitalizing on the opportunities currently offered by Kuwait’s largest expansion in almost all areas, UEI has seen a massive growth in its strategic area of business in installation and maintenance of capital projects by Build, Operate and Transfer(B.O.T) and Build, Operate and Own(B.O.O), based on sound principles of sharing and collaboration with our clients and suppliers.

Design Department

UEI has the total capability, from concept stage to detailed design- whether you require most modern electrical fittings, for your new project or modifications of existing systems. You will see a detailed as-built engineering drawing before actual erection begins.

Design-build installations

- We take full responsibility for successful commissioning.
- New installations
- Up gradation of existing units
- On site evaluations
- Customer-friendly pricing
- Guaranteed design and installation
- Operation and maintenance training
- Certified for energy conservation
- Computer aided engineering and drafting
- Recommendations for improvements and savings
- Custom built design and installation
-

Key Benefits of UEI contracts:

- Professional team with excellent technical experience
- Fully equipped company with sound financial background

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16 الفروانيه,مجمع الخرينج الدور الثالث مكتب16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

- Procurement from internationally reputed manufacturers and agencies
- Dedicated repair technicians
- 24/7 emergency service
- Preventive maintenance
- Compliance with international safety standards and guidelines
- Reliable warranties

DEDICATED TEAM

Electrical

With through experience of over 4 years experience in various projects. UEI has the expertise in offering right mix of interdisciplinary skills that suit any project requirements. Our engineers study the job at hand and offer right solutions and optimum budget. Whether it's light, medium or heavy duty –most of the tools and supplies are from our own warehouse or from our subsidiaries so that they meet the job requirements perfectly and reliability is accounted at all times.

INSTALLATIONS

Installations

UEI has the capacity to design, supply, install and commission complete systems. We provide a comprehensive range of services besides customized solutions by making a thorough study of your requirements. We can design & build to meet particular specifications or, alternatively, supply proprietary equipment from any of the major manufacturers.

Installations are performed by our professional team, maintaining the highest level of quality workmanship throughout all stages of project development using our in-house quality assurance plan, including on-site commissioning and client staff training.

REPAIR AND MAINTENANCE

Repair And Maintenance

We provide a comprehensive repair & maintenance service for complete range of projects we undertake. We provide our customers with a "Total Supply-Installations- Service- System" –which means beyond installation, we take care of repairs and maintenance to keep your installations up and running all the time. We either maintain a full range of supplies and spares for you or procure from the original manufacturers if needed so that your operations do not cripple.

24/7 Service
We provide 24/7 emergency service repairs, 7days a week. Our service technicians are well experienced and specially trained to work on all types of low voltage equipment that they are delegated to, following UEI Safety Regulations

Finance And Administration

Managing over 30 man- hours on a daily basis, consisting of several specialties and skills at an optimum output levels all the time; UEI is one of the fastest growing companies in Kuwait. Excellent reputation for quality of work and solid financial background managed by professional team, UEI has gained a leadership in contracting works with ever growing client list with wide and varied mix of projects in its portfolio.

Building Integration Solutions Divisions

- Intruder Alarm & Smoke Detection Systems- Wired and Wireless
- Closed Circuit TV Systems- Wired and Wireless
- Building/Home Automation Systems
- Time Attendance Systems
- Audio/Video Intercom Systems
- Parking Control Systems
- Access/Electronic Locking Control Systems

FULL RANGE OF SERVICES IN THE FIELD OF:

Our security solution pools in every area of concern related to :

- Barriers
- Locks
- Card Readers
- Biometric Scanners
- Access Control Systems
- Passive IR Detectors
- Beam Detectors
- Panic Alarms
- Push Buttons
- Cards
- PABX
- IPTV/Phone
- Sound Systems
- CCTV

Integrating Systems:

The future of enterprise security has long been summed up in one word:
Convergence. The building security you encounter at the front desk when you swipe your card in each morning will no longer be a separate system from the

security you encounter when you sit down at your desk and log-on to your computer.

The system integration is done in such a way that each system compliments the other and central control and monitoring from one computer or network of computers is possible.

Barriers:

A complete range of automatic or manual gates and barriers, boom barriers, motorized trackless gates and surface mounted road blockers are offered to compliment the range of electronic security system offered by us. These barriers may have card, ticketing or token operation enabling automatic fee collection. A range of hydraulic, heavy-duty roadblocks are also available to protect strategic buildings and other facilities from terrorist attacks. These systems can be operated with a card access control or other pass systems including vehicle proximity sensors.

Surveillance (CCTV) Systems

Closed Circuit Television (CCTV) Systems are the Backbone of your building security. These are widely used for monitoring of strategic location within and around a building or within a large campus.

At UEI we have installed a number of Engineered Surveillance Systems involving CCTV cameras, monitors, multiplexers, video matrix switches and other variety of peripherals including remote controlled and audio tracking pan-tilt zoom cameras.

The largest system installed till date employs more than 500 cameras, multiple control and monitoring centers, computerized CCTV management system and other peripherals.

Here are a number of reasons why CCTV surveillance system any prove to be just what your building wants:

Cost Effective: CCTV provides continuous surveillance, 24 hours a day, 7 days a week, 365 days a year. It outperforms monitors and minimizes the danger of human error. What's more, it adds an extra dimension to your peace-of-mind; since you are assured that your valuable assets are monitored effectively.

Provides a safe and secure environment: Video tape recordings provide a foolproof back-up for your security needs. these tapes are valuable records of any intrusion or incidents. Moreover these provide a visual verification of the actual events. CCTV helps to keep out unwanted visitors.

CCTV works not only in providing safety to your assets but it instills confidence in the employees. Accidents, if any, can be detected early and hence one can safely say that CCTV works in the interest of everyone.

Deters Crime and Vandalism: Individuals whose intentions may not be honorable will find CCTV intimidating. It acts as a good deterrent.

Productivity Boosters: CCTV discourages undesirable activities. Gains of 15% or more are not uncommon. CCTV system creates a conducive work climate for honesty and reductions of 50% in shrinkage are quite typical.

Your CCTV needs whether small or large we, at Global Center for Safety and Security have a solution.

Security/Access Control System

Controlling the entry facility is the most basic and important requirement of a well-designed security system. This is called Access Control. Access Control provides the security personnel with valuable information as to who was granted or denied access and at which door and at what time.

Our Access Control Systems is an excellent security system for a simple office to a more sophisticated Airport Terminal or a University Campus that requires a larger number of entry control points. Our most advanced access control solutions can integrate with Time and Attendance Systems as well and support even your payrolls.

UEI is geared to provide your environment an integrated, secure and sophisticated solution.

Features:
Multi-site-Client / Server - LAN/WAN configuration.
Integrated MAPS & Badging.
Dial-up, TCP / IP, Multi controller architecture.
Global one-card migration paths.
Quality, confidence and consistency.

Intruder Alarm Systems:

The UEI offers yet another security system peripheral - The Intruder Alarm systems. These systems ensure foolproof security at homes, offices or industrial establishments.

The basic function of these systems is to protect your environment not only from crime but also from unforeseen events and disasters. Our systems provide your security personnel and facility managers with up-to-date information in the ever-changing environment.

Central monitoring is done through either the standard dial-up telephone lines or the newer intranet monitoring systems now available in campus wide systems.

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
16مكتب الثالث الدور الخرينج مجمع,الفروانيه FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

Whether you have a very complex campus environment or a shopping mall or a smaller card room, our Intruder Alarm System will meet all your complex needs. The system includes an intrusion door control and monitoring, panic alarms, movement detector, vibration sensors and perimeter protection.

Public Address/Audio Visual Systems

Public Address System is a pre-requisite for effective communication within a facility. The UEI not only offers the latest of technologies available today in background music system but it also offers paging and intercom systems that can be integrated into a security system for door control, access control and cash control in your facilities.

Our Audio Management Systems are individually configured to match the appropriate facility. We design and build facilities for customers with customize control and switching panels, and integrate these to Fire Alarm and Voice Evacuation Systems and integrated security systems.

We carry extensive on-site surveys to understand your needs. Depending on these needs we offer you the appropriate solution.

Our Audio Visual Systems for meeting rooms, board rooms, training centers and auditoriums are appropriately useful in order to provide customized solutions for meeting your communication needs.

The UEI works with a number of known names from around the globe to offer you the latest and most appropriate solutions.

These systems find applications in organizations related to retail, municipal or gaming. Whenever you need to communicate, think of us.

UEI combines well over 20 years experience and background knowledge to provide the best possible service from its divisions of audio, components, datacoms, security and engineering.

An efficient communication system improves efficiency in any organization, thus achieving cost-reduction in operations, manufacturing etc.

Audio Visual Systems provide effective communication means in training sessions, corporate presentations, product launching etc.

Conference and Voting Systems

Integrated conference, voting and simultaneous interpretation systems are technologies that bring the world closer to wherever you are. Our systems are suitable for many of your needs be it an auditorium or government organization or a parliament building or conference halls that host summits or conferences.

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16 الفروانيه,مجمع الخرينج الدور الثالث مكتب16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

UEI are able to design, supply and install conference systems, professional audio & public address systems, video & film projection systems, editing studios, simultaneous interpretation systems etc.

UEI has been a leader in this field for nearly 5 years and have unrivalled experience. Our systems facilitate central control by a manual or mimic switching panel, parliamentary and multiple choice voting and "smart" card-readers/biometric identification etc. for members.

E-merging Technologies

UEI while ensuring safety of your environment also brings to you an array of fascinating new and exciting technologies. Our technological edge is attributed to this attitude of ours wherein we offer our customers a single focused, high performing and cost-effective I.T. services and products on a broad range of software platforms and leading technologies.

We have collaborated with some leading software companies in order to provide you with services such as:

Internet & e/m Commerce
CAD/CAM
Multimedia
Application Development
Hardware/Embedded and System Software
Web driven application for Inter-/Intra-net

All this enables our customers to face the new challenges of the millennium and stride confidently into the future with us.

Today, various technologies involved with video, audio, data and control are converging to a new integrated technology and a total solutions provider such as the UEI is well placed to lead you into the "Convergence-Age" ahead of us.

We offer total convergence solutions under one roof.

Communication Solutions

At UEI, we understand the importance communication plays in the ever pulsating global scenario. Our Technology will help you overcome geographical or traditional boundaries in such a manner that time and place will no longer be a constraint. Our computerized (network able) fax/telex systems help you do just that.

Fax Solutions: Facsimile or fax as it is widely known is the most convenient form of communication. Resting on your desktop, It effortlessly communications in an instant. Using certain software one can now fax documents directly from popular software applications like Microsoft office or email software.

Telex Solutions: UEI offers windows based communications application that enables telexes to be sent received from either stand-alone or networked PC's and allows telex to be integrated with email and fax comprehensive communications package whilst retaining the legal status of telex messages.

Hotel Security & Video Interactive System

At Specialized Systems Group, we have identifies the various systems needed for various specialized sectors. Hence we have an entire range of electronic equipment and systems that cater exclusively to the hotel and hospitality industries.

Card locking systems & Safes for guest rooms, paging systems etc are some of the facilities that we offer to our customers. Interactive TV systems used for advertising, entertaining and informing are also an integral part of our total systems package tailor-made for the hospitality industry.

Information Kiosk:
We offer information kiosks that will effectively showcase your products and services. You can use touch Screen Monitors (LCD/CRT) where information is right at your fingertips. These are ergonomically designed with emphasis on elegance and are suitable for a wide range of applications.

Hospital Communication System

At UEI group we understand the intricacies of the hospital sector where products aim to take care of the patients in many ways. We are the leaders in Health care communications systems. Our other range includes speech communications systems designed for optimum nursing efficiency and patient focused care with or without integrated patient sound

Radio / TV /Music Entertainment.

We also offer a full range of Bed head services including flat wall and Trunking to accommodate nurse call/entertainment system and all medical services including gas outlets, power outlets, telephone and monitoring equipments.

Retail Security/Article Surveillance System

Our range of products finds uses in shopping malls and other retail outlets. These are specially designed Anti Shop-Lifting Systems. These specially designed electronic products such as tags and labels deactivation equipments and sensors can be custom integrated into the retail environment for guarding every item in the stores, supermarkets and shopping malls.

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
الفروانيه,مجمع الخرينج الدور الثالث مكتب16 FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

CCTV systems also find used in retail chains where they help record all activities round-the clock and retrieval in case of thefts or other incidents. Remote monitoring of all retail outlets from a Central location too is possible.

Banking Security Products

The UEI equipments for protecting valuables find special uses in establishments like banks. Continuous development and rigorous testing ensures that our security systems are foolproof. Our reputation precedes us especially as our high quality safes, vault doors, filling cabinets and other security protection products are vouched for by our innumerable customers.

We also offer a whole range of Data protection safes and cabinets to our customers for the protection of valuable data from fire, theft as well as external magnetic fields.

We offer consultancy service to our customers and advice them about the right products that may be suitable for their particular security needs.

ID Budging /Attendance/Payroll system

The UEI offers easy to use Time & Attendance package that takes over the entire time management tasks of payroll preparation and time card calculation with interface to major payroll services.

This may also be integrated to Access Control and Employee Badging System in such a manner that a single access card can be used for access, identification and attendance.

Our advanced Time/Attendance packages are flexible, friendly and take care of every mode of your office workings, be it shifts, holidays, late arrivals or early departures.

UEI also offers smart-card solutions whereby each employee may be issued a smart-card which contains all personal data, health and insurance data, staff benefit packages etc. so that wherever he goes, all critical data travels with him.

Features:
Privileges accumulation can be stored.
Facilities authentication and verification of staff, customer etc.
Credit card size media- option to print.

Join the UEI Family

For over a decade, UEI has brought many of our partners to success through our aggressive marketing programs, road shows, exhibitions and technical seminars. Our measure of success is not quantified just in numbers, but the long terms growth of business partnership – one customer at a time. When you are in the contracting business, you need a partner that has years of contracting

experiences and provide solid support to its customers. Please come and join the UEI.

P.O Box 1617, 81027 Farwaniya, Kuwait. ص.ب:1617 الفروانية - كويت 81027
16مكتب الثالث الدور الخرينج مجمع ,الفروانيه FARWANIYA AL-KHRAINAG COMPLEX 3RD FLOOR OFFICE NO. 16
TEL : 4750757 Fax: 4758757, Email : info@ueikwt.com

PRODUCT CATALOUGE

FOR

IP, ANALOUGE, TUBE & INTELLIGENT CCTV

TELE*EYE*

AWARDS & CLIENTS

(CCTV)

In view of technology, product range and affordability, *Tele*Eye Group is the leader in the remote CCTV & DVR market. Since its first innovation of *Tele*Eye which was launched in the market in 1995, the Group has won 18 industry and business awards.

Year	Award Title	Organization
2006	**HOT!** 2006 Hong Kong Awards for Industries Technological Achievement Certificate of Merit >>	Hong Kong Science & Technology Parks
2006	**HOT!** Grand Award, 2006 HKEIA Award for Outstanding Innovation & Technology Products >>	Hong Kong Electronic Industries Association, Hong Kong Trade Development Council and ElectronicAsia
2006	**HOT!** Gold Award (Security Category), 2006 HKEIA Award for Outstanding Innovation & Technology Products >>	Hong Kong Electronic Industries Association, Hong Kong Trade Development Council and ElectronicAsia
2005	Gold Award, 3G Application Category, The 1st Hong Kong Wireless Technology Excellence Award	Hong Kong Wireless Technology Industry Association and the Hong Kong Productivity Council
2005	Gold Award (Security Category), 2005 HKEIA Award for Outstanding Innovation & Technology Products	Hong Kong Electronic Industries Association, Hong Kong Trade Development Council and ElectronicAsia
2004	Silver Award (Security / Wireless Category), 2004 HKEIA Award for Outstanding Innovation & Technology Products	Hong Kong Electronic Industries Association, Hong Kong Trade Development Council and ElectronicAsia
2003	Gold Award (Security Category), 2003 HKEIA Award for Outstanding Innovation & Technology Products	Hong Kong Electronic Industries Association, Hong Kong Trade Development Council and ElectronicAsia
2002	Award of Security Solution of Year 2002	International Bodyguard and Security Services Association, and Detektor magazine
2000	New Millennium Award for Technology and Quality	Trade Leader's Club in Spain
1999	1999 Hong Kong Awards for Industry Certificate of Merit in Consumers Product Design	Federation of Hong Kong Industries
1998	1998 DHL/SCMP Hong Kong Business Award - Certificate of Excellence in the Enterprise Trophy, 1998	DHL/SCMP Hong Kong Business Awards
1998	Silver Medal, The Chinese International Invention Expo '98	Hong Kong Productivity Council & Hong Kong Inventors Association

1998	Grand Prize Winner, The Second Applied Research Excellence Awards of City University of Hong Kong	The City University of Hong Kong
1998	The Technology-Based Business Incubation Programme - Certificate of Graduation	Hong Kong Industrial Technology Centre
1997	1997 Hong Kong Awards for Industry HKITCC Certificate of Merit in Technology Achievement	Hong Kong Industrial Technology Centre
1997	Gold Award, 1997 Hong Kong Small Business Award	Hong Kong General Chamber of Commerce and AT&T
1996	EDN Asia Innovator Award	EDN ASIA Magazine
1995	1995 Hong Kong Awards for Industry Certificate of Merit in Consumers Product Design	Federation of Hong Kong Industries

The Group is proud of its excellent performance and also being recognized as the best and expertise of security system provider in the industry. The Group will continue to develop the best quality products with innovative applications to the customers. The Group also wishes to thank you for your support and belief in its products.

TeleEye
www.TeleEye.com

Renowned Customers

Ajman Police

HSBC

Swire Coca-cola HK Ltd

Standard Chartered Bank

Siemens Components Pte Ltd.

Exxon Mobil

Citibank

Colgate-Palmolive Company

BMW Automobiles

British Airways Plc

Dr-Cafe

Mont Blanc (Hong Kong)

Jones Lang LaSalle

FPDSavills Property Management Ltd.

Swire Properties

About TeleEye Group

Founded in 1994 by the City University of Hong Kong and a group of engineering researchers, TeleEye Group is principally engaged in development, sales and marketing of hi-tech CCTV and digital surveillance equipment to cater for advanced surveillance and video transmission application. The Group's Quality Management System is ISO 9001:2000 certified.

A Listed Technology Company

TeleEye Holdings Limited (SEHK: 8051), a holding company of the Group, was listed on The Stock Exchange of Hong Kong Limited in 2001. The Group is the first publicly traded spin-off from an academic institution in Hong Kong. The listing further enhanced TeleEye's brand awareness and marked a historical event as TeleEye was the first hi-tech company nurtured by a local government sponsored university in Hong Kong.

Global Network – Worldwide Coverage

Backed by its solid foundation with successful product development and marketing, seven offices in China, Japan, Singapore, the United Kingdom, Croatia, Mauritius and the Philippines provide technical and marketing supports to customers. The Group also has appointed Authorized Distributors covering over 20 countries worldwide.

Outstanding Performance – International Recognition

TeleEye Group has a team of professional engineering veterans specialized in advanced signal processing, telecommunications and digital technologies. The Group and its TeleEye products have won numerous prestigious local and international awards. The state-of-the-art TeleEye products are widely used in SME companies, multi-national corporations and professional security companies since its launch to the market.

Pioneer in Video Compression - Leading Technology

With leading-edge functions and excellent quality at affordable price, TeleEye product had become a well-known brand in the market. Through the provision of proprietary video compression technology, Multi-rate Video Coder SMAC-M in its video recording systems, TeleEye delivers enhanced video surveillance benefits to its customers. SMAC-M is the first video coder in the market that uses multi-rate coding technology. It allows users to truly experience simultaneous recording and remote surveillance.

Comprehensive Products for Different Needs

As a technology-driven company, the Group aggressively develops and offers total video surveillance products to the markets including network CCTV, dial-up CCTV, CCTV application software, standalone DVR, video camera, speed domes and software for customers' selection.

Excellent Quality - Customer Oriented

The Group provides customers with excellent services. The Group also periodically provides extensive technology information to its dealers through seminars and training courses so as to equip them with sufficient knowledge on the TeleEye systems. After-sales technical and maintenance support is also extended to users of the TeleEye systems either directly or through the Group's distributors. In addition, the Group offers one-year product warranty to users during which free repair and maintenance services are provided.

Upcoming Events

China International Urban Safety and Security Equipment Exhibition
30 October - 2 November 2006
Booth : 3B 620
China International Exhibition Centre,
Beijing, China

INTERSEC 2007
21 - 23 January 2007
Booth : 36C
Hall 2
Dubai International Exhibition Centre, UAE

SecuTech Expo 2007
16 - 18 April 2007
Booth : D519, Hall 1
Taipei World Trade Centre
Taiwan

General Product Comparison Statement			
Sl.No	**TeleEye**	**Vicon**	**Pelco**
1	DVRs use SMAC technology to record video	DVRs use MPEG technology to record video	DVRs use MPEG technology to record video
2	Product Range often suites any commercial market requirements as well as the medium industrial standard	Product Range suites high end commercial market and lower to higher end industrial standards	Product Range suites high end commercial market and lower to extreme higher end industrial standards
3	Equipments are compact and multi-functional	Each equipment has dedicated functions and have to be integrated with other dedicated equipment to build a full functional CCTV System	Each equipment has dedicated functions and have to be integrated with other dedicated equipment to build a full functional CCTV System
4	Operation Software is user friendly and does not require any special training for operation and maintenance	Operation software is user friendly and requires a certain level of training for operation and maintenance.	Operation software requires training for operations and local training for maintenance.
5	Has mobile viewing technology	Has Internet viewing technology	Has Internet viewing technology
6	Integration with Theft Alarm, Access Control system, does not require special modifications to DVRs	Integration with Access Control system, theft Alarms, etc, requires interface modules	Integration with Access Control system, theft Alarms, etc, requires interface modules

7	Mounting Options and brackets are often included as a package	Mounting options and brackets are separate	Mounting options and brackets are separate
8	Camera Units are compact and not space consuming	Camera Units are large and often requires a lot of coordination prior to installation	Camera Units are large and often requires a lot of coordination prior to installation
9	Custom made units are not available to suit site specific	Custom made units are available to suit site specific requirements	Custom made units are available to suit site specific requirements
10	Does not require high Maintenance procedures	Requires training to carry out maintenance procedures	Requires training to carry out maintenance procedures
11	Head End equipment are commercial CCTV wiring compatible	Head End Equipment require manufacturer specified wiring procedures	Head End Equipment require manufacturer specified wiring procedures

CATALOUGES

AXIS 207/207W/207MW
Network Cameras

True bandwidth-efficient MPEG-4 network cameras

The AXIS 207 Network Cameras offer compact and cost-effective solutions for indoor surveillance and remote monitoring. The AXIS 207 family provides the best image quality in its class, with excellent performance even in low light conditions. It offers VGA resolution with AXIS 207/207W, and if greater detail or wider field of view is required, Megapixel resolution with AXIS 207MW.

The AXIS 207 Network Cameras also provide the best bandwidth efficiency, thanks to its MPEG-4 implementation that includes motion estimation. Simultaneous MPEG-4 and Motion JPEG streams allow systems to be optimized for both image quality and bandwidth. The built-in microphone enables remote users to not only view, but also listen in on an area and increase the monitoring options.

Thanks to the built-in Web server, the AXIS 207 Network Cameras can be monitored from a standard browser on a Windows computer or a Macintosh. In addition to the included AXIS IP Utility tool for Windows, the cameras support both UPnP and Bonjour, for easy location on the network in a Windows or Macintosh environment.

Video can be recorded directly from the Web interface or via the included video management software. Video can also be uploaded over FTP, email or HTTP when the camera detects motion or is triggered by a sensor connected to the alarm input.

The AXIS 207W/207MW Network Cameras are supplied with both wireless IEEE 802.11g and Ethernet network interfaces for flexible installation. They support the WPA (Wi-Fi Protected Access) and WPA2 protocols to provide the best security for wireless networks. The wide coverage provided by the high-performance wireless functionality gives the freedom to place the camera where required, instead of being restricted to network outlets.

These network cameras are ideal for securing small businesses, home offices and residences over a local area network or the Internet.

- Superior image quality with up to 12 frames per second in 1.3 Megapixel resolution (AXIS 207MW) or up to 30 in VGA (AXIS 207/207W)
- Simultaneous Motion JPEG and MPEG-4 for optimized quality and bandwidth
- Built-in microphone for synchronized audio
- Wireless IEEE 802.11g and Ethernet for flexible installation (AXIS 207W/207MW)
- Built-in Web server for monitoring via standard browser on Windows or Mac

AXIS COMMUNICATIONS

AXIS 207/207W/207MW Network Cameras

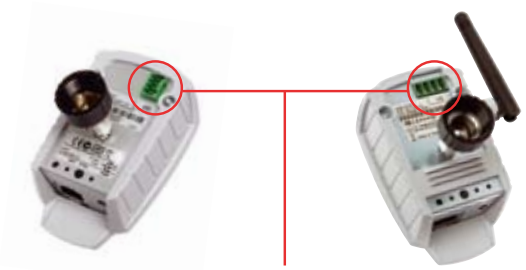
Specifications

Models	AXIS 207: VGA, wired interface AXIS 207W: VGA, wired and wireless interface AXIS 207MW: Megapixel, wired and wireless interface
Image sensor	AXIS 207/207W: 1/4" Micron Progressive Scan RGB VGA CMOS AXIS 207MW: 1/3" Micron Progressive Scan RGB 1.3 Megapixel CMOS
Lens	AXIS 207/207W: 4.0 mm, F2.0, fixed iris, focus range: 0.5 m to infinity AXIS 207MW: 3.6 mm, F1.8, fixed iris, focus range: 0.5 m to infinity
Angle of view	AXIS 207/207W: 55° horizontal AXIS 207MW: 65° horizontal
Light sensitivity	AXIS 207/207W: 1-10000 lux, F2.0 AXIS 207MW: 2-10000 lux, F1.8
Video compression	Motion JPEG MPEG-4 Part 2 (ISO/IEC 14496-2) with motion estimation, profiles: Simple Profile, level 0-3, and Advanced Simple Profile, level 0-5
Resolutions	AXIS 207/207W: 7 resolutions up to 640x480 AXIS 207MW: 15 resolutions up to 1280x1024
Frame rate	AXIS 207/207W: Up to 30 fps in all resolutions AXIS 207MW: Up to 14 fps in resolutions up to 1280x720, up to 12 fps in 1280x1024
Video streaming	Simultaneous Motion JPEG and MPEG-4 Controllable frame rate and bandwidth 3GPP and ISMA compatible
Image settings	Compression levels: 100 Rotation: 0°, 180° Configurable color level, brightness, contrast, white balance Overlay capabilities: time, date and text
Shutter time	AXIS 207/207W: 1/2 - 1/10000 second AXIS 207MW: 1/10 - 1/10000 second
Audio	Built-in microphone for one-way audio Audio compression: AAC LC 8-32 kbit/s, G.711 PCM 64 kbit/s, G.726 ADPCM 32 or 24 kbit/s (AXIS 207W/207MW)
Wireless interface (AXIS 207W/ 207MW)	IEEE 802.11g 6 - 54 Mbps IEEE 802.11b 1 - 11 Mbps Transmit power: 20-22 dBm* (FCC), 11-14 dBm (CE)** Receiver sensitivity: -90 dBm at 1 Mb Modes: Infrastructure and ad-hoc Antenna gain: 1.6 dBi **Peak; without antenna gain; **Avg; without antenna gain*
Security	Multiple user access levels with password protection AXIS 207W/AXIS 207MW: IP address filtering, HTTPS encryption WEP 64/128 bit, WPA-PSK*, WPA2-PSK* **infrastructure mode only*
Users	10 simultaneous unicast users Unlimited users using multicast (MPEG-4)
Alarm and event management	Events triggered by video motion detection, audio detection or external input Upload of MPEG-4 video or Motion JPEG images over FTP, email and HTTP Notification via email, HTTP and external output Pre- and post alarm buffering in MPEG-4 file up to 4 MB (AXIS 207/207W) / 2 MB (AXIS 207MW)
Connectors	Ethernet 10BaseT/100BaseTX, Auto-MDIX (AXIS 207W/207MW), RJ-45 Terminal block for 1 alarm input, 1 output and alternative power connection
Processors and memory	CPU, video processing and compression: ARTPEC-A RAM: 32 MB, Flash: 4 MB (AXIS 207), 8 MB (AXIS 207W/207MW)

Power	AXIS 207: 4.9-5.1 V DC, max 2.5 W AXIS 207W: 4.9-5.1 V DC, max 3.5 W AXIS 207MW 4.9-5.1 V DC, max 4.0 W
Operating conditions	5-50 °C (41-122 °F) Humidity 20 - 80% RH (non-condensing)
Installation, management and maintenance	Installation tool on CD and Web-based configuration Configuration backup and restore Video management software for recording Firmware upgrades over HTTP or FTP, firmware available at www.axis.com
Video access from web browser	Camera live view, video recording to file (ASF), customizable HTML pages
Minimum web browsing requirements	Pentium III CPU 500 MHz or higher, or equivalent AMD 128 MB RAM AGP graphics card 32 MB RAM, Direct Draw Windows XP, 2000, DirectX 9.0 or later Internet Explorer 6.x or later Mac OS X 10.3 or later and Safari 1.3 or later with QuickTime plugin Other MPEG-4/AAC players supported: Packet Video, QuickTime, RealPlayer standalone and browser plug-ins, Windows Media Player For other operating systems and browsers see www.axis.com/techsup
System integration support	Open API for software integration including AXIS VAPIX API*, AXIS Media Control SDK*, event trigger data in video stream and NAT traversal. Quality of Service (QoS) Layer 3, DiffServ Model. Embedded Linux operating system **Available at www.axis.com*
Supported protocols	IPv4, HTTP, TCP, ICMP, QoS, RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP, Bonjour, ARP, DNS, DynDNS, SOCKS, NTP Additional protocols in AXIS 207W/MW: IPv6, HTTPS, SSL/TLS*, SNMPv1/v2c/v3 (MIB-II) More information on protocol usage available at www.axis.com **This product includes software developed by the Open SSL Project for use in the Open SSL Toolkit*
Accessories (included)	Power supply, stand, clamp, connector block, Installation Guide, CD with installation tool, software and User's Manual, AXIS Camera Explorer license, MPEG-4 licenses (1 encoder, 1 decoder), MPEG-4 decoder (Windows)
Video management software (not incl.)	AXIS Camera Station - Video management software for viewing, recording and archiving up to 25 cameras See www.axis.com/partner/adp_partners.htm for more software applications via partners
Accessories (not incl.)	AXIS 207: Indoor vandal-resistant housing MPEG-4 Decoder multi-user license pack
Approvals	AXIS 207: EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS 3548, EN 60950 AXIS 207W/207MW: EN 300328, EN 301489, FCC Part 15 Subpart B & C Class B, ICES-003 Class B, RSS210, VCCI Class B, TELEC, C-tick AS/NZS 4771, MIC, EN 60950 Power supply: EN 60950, UL, CSA
Dimensions (HxWxD) and weight	AXIS 207: 85 x 55 x 34 mm, (3.3" x 2.2" x 1.3"), 177 g (0.39 lb) incl. stand, excl. power supply AXIS 207W/207MW: 85 x 55 x 40 mm (3.3" x 2.2" x 1.6") antenna not included, 190 g (0.42 lb) incl. stand, excl. power supply

AXIS 207/207W/207MW Network Camera with camera stand - stand included

AXIS 207/207W/207MW Network Camera with flexible clamp - clamp included



The four-pin terminal connector provides the interface to 1 alarm input, 1 output and alternative power connection. It can be used for connecting e.g. an external alarm device for triggering an alarm notification via email.

www.axis.com

AXIS COMMUNICATIONS

29978/EN/R5/0709

©2007 Axis Communications AB. The Axis trademark is registered by Axis AB. All other company names and products are trademarks or registered trademarks of their respective companies. We reserve the right to introduce modifications without prior notice.

AXIS 210/211
Network Cameras

Superior video quality for professional indoor and outdoor applications

AXIS 210 and AXIS 211 Network Cameras from the market leader in network video, are ideal for indoor and outdoor surveillance and remote monitoring.

The network cameras provide the best image quality in their class, using a progressive scan CCD sensor and powerful real-time image processing hardware to guarantee full frame rate, even at VGA resolution. Connecting directly to IP networks, the built-in Web server, open application interface, and sophisticated networking functions based on open industry standards greatly simplify systems integration.

AXIS 211, with built-in Power over Ethernet – which enables power to be delivered to the camera via the network – reduces cabling requirements and installation costs, and consolidates power for higher reliability.

AXIS 210 and AXIS 211 provide the perfect solution for securing offices, shops, schools and other facilities over the local area network or across the Internet.

- Superior image quality using progressive scan CCD and advanced video processing
- Up to 30 frames per second in VGA 640 x 480 resolution
- Simultaneous Motion JPEG and MPEG-4 streams optimize for quality and bandwidth
- Built-in motion detection with pre- and post-alarm image buffering
- Power over Ethernet support (IEEE 802.3af) simplifies installation (AXIS 211)

AXIS COMMUNICATIONS

AXIS 210/211 Network Cameras

Specifications

Models	AXIS 210: indoor use only AXIS 211: Power over Ethernet, varifocal DC-Iris, indoor/outdoor
Image Sensor	1/4" Sony Wfine progressive scan RGB CCD
Lens	AXIS 210: 4.0 mm, F1.2, fixed iris, CS mount AXIS 211: 3.0 - 8.0 mm, F1.0, DC-iris, CS mount
Angle of view	AXIS 210: 48° horizontal AXIS 211: 27°-67° horizontal
Minimum illumination	AXIS 210: 1.0 lux, F1.2 AXIS 211: 0,75 lux, F1.0
Video compression	Motion JPEG MPEG-4 Part 2 (ISO/IEC 14496-2), Profiles: ASP and SP
Resolutions	16 resolutions from 640 x 480 to 160 x 120 via API, 5 selections via configuration web page
Frame rate	Motion JPEG: Up to 30 fps in all resolutions MPEG-4: Up to 25 fps at 640x480 Up to 30 fps at 480x360 or lower
Video streaming	Simultaneous Motion JPEG and MPEG-4 Controllable frame rate and bandwidth Constant and variable bit rate (MPEG-4)
Image settings	Compression levels: 11 (Motion JPEG)/23 (MPEG-4) Rotation: 90°, 180°, 270° Configurable color level, brightness, contrast, exposure, white balance, fine tuning of behavior at low light Overlay capabilities: time, date, privacy mask, text or image
Shutter time	2 sec to 1/12500 sec
Security	Multiple user access levels with password protection IP address filtering
Users	20 simultaneous users Unlimited users using multicast (MPEG-4)
Language support (Web interface)	English. Downloadable language files for French, German, Italian, Japanese and Spanish are available at www.axis.com/techsup. Other language files may also be available
Alarm and event management	Events triggered by built-in motion detection, external input or according to a schedule Image upload over FTP, email and HTTP Notification over TCP, email, HTTP and external output Pre- and post alarm buffer: up to 1.2 MB (up to 40 sec of 320x240 video at 4 frames per sec)
Connectors	RJ-45 for Ethernet 10BaseT/100BaseTX Terminal block for 1 alarm input, 1 output and alternative power connection
Processors, memory and clock	CPU: ETRAX 100LX 32bit Video processing and compression: ARTPEC-2 RAM: 16 MB, Flash: 4 MB Battery backed up real-time clock

Power	7-20 V DC max 7 W AXIS 211: PoE IEEE802.3af Class 2
Operating conditions	5 - 45 °C (41 – 113 °F) Humidity 20 - 80% RH (non-condensing)
Installation, management and maintenance	AXIS Camera Management tool on CD and web-based configuration, configuration of backup and restore Firmware upgrades over HTTP or FTP, firmware available at www.axis.com
Video access from Web browser	Camera live view, Video recording to file (ASF), Sequence tour for up to 20 external Axis video sources, Customizable HTML pages
Minimum Web browsing requirements	Pentium III CPU 500 MHz or higher, or equivalent AMD, 128 MB RAM, AGP graphics card 32 MB RAM, Direct Draw Windows XP, 2000, 2003 Server, DirectX 9.0 or later Internet Explorer 6.x or later For other operating systems and browsers see www.axis.com/techsup
System integration support	Open API for application integration including AXIS VAPIX API*, AXIS Media Control SDK*, event trigger data in video stream Quality of Service (QoS) Layer 3, DiffServ Model Embedded Linux operating system ** Available at www.axis.com*
Supported protocols	IPv4/v6, HTTP, TCP, QoS, RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, ICMP DHCP, UPnP, Bonjour, ARP, DNS, DynDNS, SOCKS. More information on protocol usage available at www.axis.com
Video management software (not incl.)	AXIS Camera Station - Surveillance application for viewing, recording and archiving up to 25 cameras See www.axis.com/partner/adp_partners.htm for more software applications via partners
Included Accessories	Power supply 9 V DC, stand, connector kit, Installation Guide, CD with installation tool, software and User's Manual, MPEG-4 licenses (1 encoder, 1 decoder), MPEG-4 decoder (Windows)
Accessories (not incl.)	Housings for adverse indoor/outdoor environments Power over Ethernet midspans AXIS 292 Network Video Decoder MPEG-4 Decoder multi-user license pack
Approvals	EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 55024, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS 3548, EN 60950 Power supply: EN 60950, UL, cUL
Dimensions (HxWxD) and weight	AXIS 210: 38 x 88 x 157 mm (1.5" x 3.4" x 6.2") AXIS 211: 38 x 95 x 178 mm (1.5" x 3.7" x 7.0") 250 g (0.55 lb) excl. power supply

Interlaced, 20 ms difference between odd and even lines

Progressive Scan, all lines are captured at the same time

Progressive scan is used instead of the interlaced method found in analog CCTV (PAL/NTSC) cameras. With progressive scan all pixels (lines) are captured at the same time, enabling moving images to be presented without distortion.

www.axis.com

AXIS COMMUNICATIONS

28701/EN/R2/0703

©2007 Axis Communications AB. The Axis trademark is registered by Axis AB. All other company names and products are trademarks or registered trademarks of their respective companies. We reserve the right to introduce modifications without notice.

AXIS 212 PTZ Network Camera

Full overview and instant zoom – yet no moving parts

AXIS COMMUNICATIONS

AXIS 212 PTZ Network Camera

A whole new definition of PTZ

AXIS 212 PTZ is no ordinary PTZ. It's the only PTZ network camera that provides full overview, and instant, one-click pan/tilt/zoom – with maintained sharp image resolution. And it's all done without moving parts, so there's no wear and tear. In short, it's a whole new definition of PTZ.

These distinguishing features make a unique combination:

FULL OVERVIEW >

A full 140° field of vision provides video of the entire monitored area. Conventional PTZ cameras can view only one part of the whole video scene at a time.

INSTANT PAN/TILT/ZOOM >

Zooming in from full overview to close-up is instant, in one-step clicks. There's no delayed reaction. Pan and tilt work in the same instant way.

NO MOVING PARTS >

AXIS 212 PTZ is also unique in using a wide-angle lens and a 3 megapixel sensor to achieve PTZ functionality. No moving parts are needed, which means no wear and tear.

MAINTAINED RESOLUTION >

Many cameras cannot deliver an overview with sharp resolution, nor maintain resolution when zooming. AXIS 212 PTZ maintains sharp images at all times.

PERFECT FOR INDOOR VIDEO SURVEILLANCE >

AXIS 212 PTZ is perfect for indoor surveillance of premises up to 150 m^2/500ft^2, such as shops, reception areas, banks, server rooms and other places where you need to see the whole area and have the possibility to zoom in for detailed inspection and monitoring. Add powerful event management functionalities such as pre- and post-alarm image buffering, and you have a highly efficient video surveillance solution.

AXIS 212 PTZ also incorporates a number of other features that it shares with many other Axis network cameras: BUILT-IN POWER OVER ETHERNET, SIMULTANEOUS MOTION JPEG AND MPEG-4, TWO-WAY AUDIO, COMPREHENSIVE SET OF NETWORK SECURITY FEATURES, TAMPER-RESISTANT DESIGN, POWERFUL API, AND MORE.

FULL OVERVIEW

Conventional PTZ cameras allow the user to pan, tilt and zoom, but not to see the whole video scene – just one portion at a time. AXIS 212 PTZ gives the user the whole picture, then allows instant pan/tilt/zoom to get the details.

The dotted lines show the limited area covered by conventional PTZ cameras. If the man on the left was shoplifting, he would be out of view.

AXIS 212 PTZ lets you view the entire monitored area. There are no hidden areas.

INSTANT PAN/TILT/ZOOM

The 3x zoom provides instant, one-click optical zoom functionality. Consequently, from the overview image, a security officer can zoom in 3 times on any suspicious behavior by just clicking on the part of the image where it's happening. No other PTZ camera can zoom in instantly on off-centered action. And since there is no movement in the lens system, the camera instantly changes the field of view.

It's this simple:

- > Overview of the whole scene in perfect image quality
- > Pan, tilt and zoom with one click
- > Follow a visitor with one click
- > Return to overview with one click

Whether in overview or fully zoomed in, you get perfect image quality in VGA resolution. Zooming – the instant, one-click, 3x zoom – does not decrease the image quality. Edges do not become jagged. More importantly, when you zoom in on suspicious behavior, you increase your chances of being able to identify what is happening and who is involved.

NO MOVING PARTS

AXIS 212 PTZ achieves full overview as well as instant pan/tilt/zoom without any moving parts, which means no wear and tear. This unique feature is based on two determining factors:

- > A wide-angle lens combined with a 3 megapixel sensor
- > Utilization of the full "windowing" possibilities: the camera captures predetermined sections of the overview without mechanical motion.

The advantages of no moving parts are considerable:

- > No wear and tear – and a level of durability and reliability far ahead of conventional PTZ.
- > No noise – thus making the camera even more discreet.
- > No way to tell where the camera is looking. In fact, the camera seems to follow anyone on the premises.
- > No delay for mechanical movement – enabling instant pan/tilt/zoom, and thus no time lag in the images.

RESOLUTION – SHARP AND MAINTAINED

Many cameras cannot deliver an overview with sharp resolution, nor maintain resolution when zooming. AXIS 212 PTZ can, because it has such outstanding image resolution to start with.

OVERVIEW – THE STARTING POINT

By having a full overview of 140° (pan), AXIS 212 PTZ wastes no pixels. This means that the full image sensor can be used for image quality purposes – and the difference is astonishing.

180/360° degree cameras cover a bigger area, but at the expense of spreading the amount of available pixels (resolution) over areas that are often of no interest. With the AXIS 212 PTZ, you see everything you need to see, and the image is sharper.

SUPERIOR IMAGE QUALITY

AXIS 212 PTZ offers progressive scan and advanced signal processing based on a 3 megapixel CMOS sensor.

OVERSAMPLING

Oversampling is a technology that uses the advantages of a high-resolution sensor (2048x1536 pixels) in its full format. This means that, whether in full overview mode or when zooming in, full 1:1 VGA resolution of 640x480 pixels is maintained - resulting in a brighter image, more detail and higher contrast.

When you zoom in 3 times, you obtain normal VGA 1:1 resolution

BANDWIDTH SAVER

Another obvious advantage of VGA resolution combined with enhanced image quality is lower requirements on bandwidth and storage capacity. AXIS 212 PTZ is able to efficiently "window" a specific portion of the 3 megapixel sensor grid. In doing so, the camera filters out unnecessary information that offloads your network and storage capacity, and lets you capture a well-defined "image concentrate".

ADVANCED SECURITY AND NETWORK MANAGEMENT

AXIS 212 PTZ offers the highest degree of security by using multiple, password-protected user access levels, IP address filtering, HTTPS encryption and IEEE 802.1X network access control. With the appropriate access rights, video from AXIS 212 PTZ can be accessed from any computer, anywhere, at any time.

Support for IPv4 and IPv6 ensures that the camera can operate on existing and future networks. IPv6, the successor to IPv4, increases the number of available addresses eliminating the need for network address translation and simplifying configuration. Network utilization is optimized with the support for Quality of Service (QoS), which enables reservation of network capacity and prioritization of mission-critical surveillance in a QoS-aware network.

ADVANCED VIDEO AND EVENT MANAGEMENT

You can access live and recorded video at any time from any computer anywhere. AXIS 212 PTZ supports AXIS Camera Station video management software, offering all the advanced capabilities you need: remote video monitoring, recording and playback. It also lets you perform scheduled event management, using its embedded features: video motion detection, audio detection, inputs/output for connecting additional devices such as external relays and sensors to activate light or open/close doors. The pre- and post-image alarm buffer further contributes to powerful event management, by securing images just before and after an alarm.

AXIS 212 PTZ includes the Axis Application Programming Interface, AXIS VAPIX™ API, facilitating the development of customized applications. It also ensures you benefit from the widest available range of third party applications, available via Axis Application Development Partners.

EASY INSTALLATION

AXIS 212 PTZ is optimized for wall mounting, but may also be mounted on the ceiling. An adapter is provided for angled mounting, so that when positioned at a specific angle, the camera can monitor a specific area along a wall or corridor, for instance.

ANGLE ADAPTER FOR LEFT AND RIGHT MOUNTING

The angled wall mount will help you optimize the direction of the tunnel vision so that no sensor space is wasted.

BUILT-IN POWER OVER ETHERNET

Built-in Power over Ethernet enables power to be delivered to AXIS 212 PTZ via the network, consolidating power for higher reliability as well as further reducing cabling requirements and installation costs.

THE SECURITY BENEFITS

Market trends for cameras, particularly those for use within security applications, indicate a growing interest in PTZ network cameras, as network video has made it possible to easily manage cameras remotely with no extra cables.

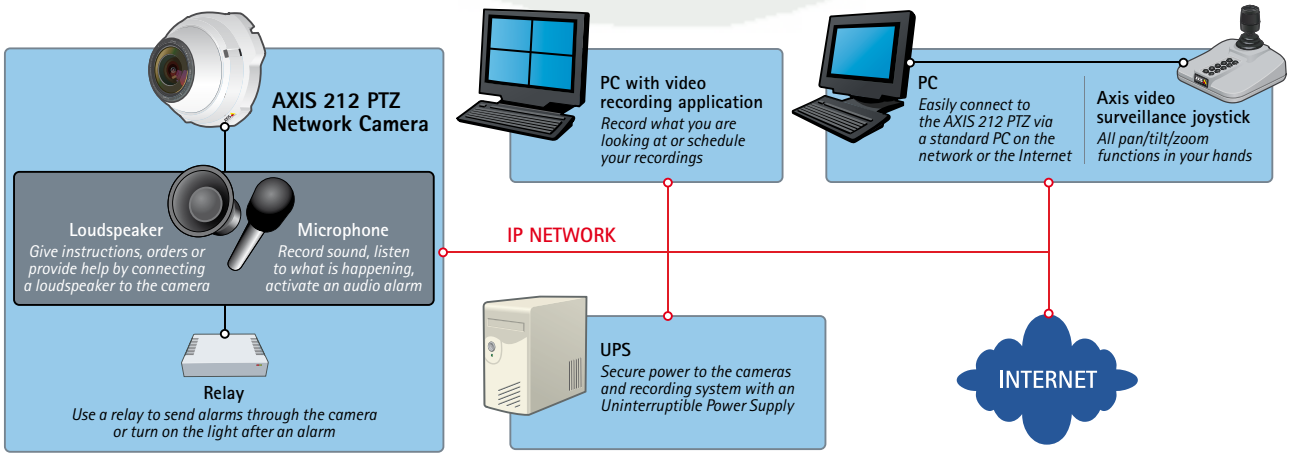
Built-in Power over Ethernet further contributes to this by enabling power to be delivered to AXIS 212 PTZ via the network, consolidating power for higher reliability as well as further reducing cabling requirements and installation costs.

The lack of moving parts contributes to operating reliability as well as resistance to tampering. Even though the camera does not need to move to capture a full field of view, it gives the impression of following anybody within its range. This can be a significant security factor, as people tend to act responsibly if they feel they're being watched.

Simultaneous MPEG-4 and Motion JPEG video streams for optimized quality and bandwidth usage together with pre- and post-alarm image buffering, video motion detection, scheduled and triggered event functionality with alarm notification provide effective indoor monitoring. The built-in two-way audio support enables remote users to not only view, but also listen in on an area and communicate orders or requests to visitors or intruders, thereby increasing the monitoring options.

In short, this compact and discreet camera is ideal for indoor environments where you need an overview and the possibility to instantly pan, tilt and zoom for detailed inspections. Add open integration capacities, flexibility, scalability and the added security that comes with a reliable product from a reliable supplier, and you have the ideal solution for indoor video surveillance.

AXIS 212 PTZ NETWORK CAMERA: A TYPICAL INSTALLATION


AXIS 212 PTZ Network Camera
Loudspeaker
Give instructions, orders or provide help by connecting a loudspeaker to the camera
Microphone
Record sound, listen to what is happening, activate an audio alarm
Relay
Use a relay to send alarms through the camera or turn on the light after an alarm
PC with video recording application
Record what you are looking at or schedule your recordings
PC
Easily connect to the AXIS 212 PTZ via a standard PC on the network or the Internet
Axis video surveillance joystick
All pan/tilt/zoom functions in your hands
IP NETWORK
UPS
Secure power to the cameras and recording system with an Uninterruptible Power Supply
INTERNET

TECHNICAL SPECIFICATIONS – AXIS 212 PTZ NETWORK CAMERA

Image sensor	3.1 Megapixel 1/2" progressive scan CMOS
Lens	Fujinon, F1. 8, fixed iris Focal length: 2.7 mm Focus range: 0.2 m - infinity (from front of lens)
Angle of view	Horizontal: 44° - 140° Vertical: 35° - 105°
Zoom	3x, 0.1 sec from wide to tele
Min illumination	10 lux wide mode 20 lux tele mode
Pan range	± 70° instant pan
Tilt range	± 52° instant tilt
Max speed	400°/second
Video compression	Motion JPEG MPEG-4 Part 2 (ISO/IEC 14496-2) with motion estimation Profiles: Advanced Simple Profile and Simple Profile
Resolutions	9 resolutions from 640x480 to 160x120 via API 6 selections via configuration Web page
Frame rate	Up to 30 frames per second in VGA (Motion JPEG and MPEG-4)
Video streaming	Simultaneous Motion JPEG and MPEG-4 Controllable frame rate and bandwidth Constant and variable bit rate (MPEG-4)
Image settings	Compression levels: 100 Configurable color level, brightness, sharpness, white balance, exposure control Overlay capabilities: time, date, text
Pan/tilt/zoom	20 preset positions Guard Tour Sequence mode Supports Windows compatible joysticks Designed for continuous movement
Shutter time	1/5 s to 1/10000 s
Audio	Half-duplex or simplex Built-in microphone or external microphone/line input Mono audio output (line level) connects to PA system or active speaker with built-in amplifier Audio compression: AAC LC 8-32 kbit/s, G.711 PCM 64 kbit/s, G.726 ADPCM 32 or 24 kbit/s
Security	Multiple user access levels with password protection, IP address filtering, HTTPS encryption IEEE 802.1X network access control
Users	20 simultaneous users Unlimited number of users using multicast (MPEG-4)
Alarm and event management	Events triggered by built-in multi-window motion detection, audio detection, external inputs or according to a schedule Image upload over FTP, email and HTTP Notification over TCP, email, HTTP and external output Pre- and post alarm buffer of 9 MB (approx 5 min of 320x240 resolution video at 4 frames per sec)
Connectors	Ethernet 10BaseT/100BaseTX, RJ-45 Mini DC power jack Terminal block for 1 alarm input and 1 output 3.5 mm jack for Mic in (max 80 mVpp) or Line mono input (max 6.4 Vpp) 3.5 mm jack for Line mono output (max 1.3 Vpp) to active speaker

Casing	Polycarbonate, tamper-resistant
Processors and memory	CPU, video processing and compression: ARTPEC-A RAM: 32 MB, Flash: 8 MB Battery backed-up real-time clock
Power	4.9 - 5.1 V DC max 3.6 W, or Power over Ethernet (IEEE 802.3af) Class 1 (max 3.84 W)
Operating conditions	5 - 40 °C (41 - 104 °F) Humidity 20 - 80% RH (non-condensing)
Installation, management and maintenance	AXIS Camera Management tool on CD and Web-based configuration Configuration of backup and restore Firmware upgrades over HTTP or FTP, firmware available at www.axis.com
Video access from web browser	Camera live view Video recording to file (ASF) Sequence tour capability for up to 20 PTZ presets or external Axis video sources Customizable HTML pages
Minimum web browsing requirements	Pentium III CPU 500 MHz or higher, or equivalent AMD 128 MB RAM AGP graphic card 32 MB RAM, Direct Draw Windows XP or 2000, DirectX 9.0 or later Internet Explorer 6.x or later For other operating systems and browsers see www.axis.com/techsup
System integration support	Open API for software integration, including AXIS VAPIX API*, AXIS Media Control SDK*, event trigger data in video stream Quality of Service (QoS) Layer 3, DiffServ Model Embedded Linux operating system ** Available at www.axis.com*
Supported protocols	IPv4/v6, TCP, ICMP, ARP, RTSP, RTP, RTCP, UDP, IGMP, DHCP, DNS, DynDNS, SOCKS, NTP, UPnP, Bonjour, HTTP, HTTPS, SSL/TLS*, SNMPv1/v2c/v3 (MIB-II), SMTP, FTP More information on protocol usage available at www.axis.com ** This product includes software developed by the Open SSL Project for use in the Open SSL Tool kit (www.openssl.org)*
Included accessories	Installation Guide CD with installation and management tools, demo software and User's Manual Mounting and connector kits, angled wall mount Power supply PS-H 5.1 V DC MPEG-4 decoder (Windows) MPEG-4/AAC licenses (1 encoder, 1 decoder)
Video management software (not incl.)	AXIS Camera Station - Surveillance application for viewing, recording and archiving up to 25 cameras See www.axis.com/partner/adp_partners.htm for more software applications via partners
Accessories (not incl.)	AXIS 295 Video Surveillance Joystick MPEG-4/AAC decoder multi-user license pack
Approvals	EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, FCC Part 15 Subpart B Class B, VCCI Class B, ICES-003 Class B, C-tick AS/NZS CISPR 22, EN60950 Power supply: UL, CSA
Dimensions (HxWxD) and weight	78 x 144 x 132 mm (3.0" x 5.6" x 5.2") Weight: 504 g (1.1 lbs)

www.axis.com

©2007 Axis Communications AB. The Axis trademark is registered by Axis AB. All other company names and products are trademarks or registered trademarks of their respective companies. We reserve the right to introduce modifications without prior notice.

AXIS® COMMUNICATIONS

29162/EN/R3/0705

TUB CAMERA® evolution 6 MR

The ideal CCTV solution

to protect large areas

TEB

See it *differently*

TUB CAMERA

Technology, innovation, efficiency

Technical specifications	
MECHANICAL STRUCTURE	
Diameter	170 mm (6.69 inches)
Lenght	Unlimited
Upper structure	Aluminium profile
Lower stucture	Double mirrored reflective housing
SHUTTLE CAMERA PERFORMANCES	
Shuttle camera speed	0 to 6 metres/sec.
Traction control	PDS - Precise Differential Speed
Video transmission technology	Exclusive TEB Optical technology
Electronic brakes	Auto detection of tracks end (MR exclusive TEB technology)
Preset position setting	100 presets position (PTA function)
Odometer function	Yes (total or partial)
Control	With Neopad twin joystick TEB keypad
Joystick/Shuttle logical control	Yes (Neopad twin joystick TEB keypad)
Menu configuration	OSD menu
CAMERA PERFORMANCES	
Pan range	360° continuous
Tilt range	90°, auto-flip (rotates dome 180° at bottom of tilt travel)
Pan and Tilt speed	From 1° to 230°/sec.
OPTICAL SPECIFICATIONS	
Image sensor	¼ inch CCD resolution
Horizontal resolution	H > 470 lines – V > 400 lines
Zoom lens	18x optical (standard mode) up to 72x 4.1 mm > f > 73.8 mm to 1.4 < F < 3
Optical angle	H 4.3 to 48.8 ; V 3.3 to 37.6
Electronic shutter	From ¼s to 1/10000s
Video composite signal	1.0 V peak to peak
Backlight compensation	On/off
White balance	Auto in/out
Auto focus	Auto/manual
Maximum sensitivity	0.2 Lux
Day/Night function	Yes (manual/auto)
ELECTRICAL	
Power requirements	Low voltage 19 V DC
Power consumption	0.58 A to 10.5 A
Operating temperatures	From 0°C to +50°C
CERTIFICATIONS	
Compliance with EEC Directive	89/336/CEE (Electromagnetic compatibility)
Compliance with the standards	EN 50082-1 Ed 94 - EN 55022 Classe B Ed 94

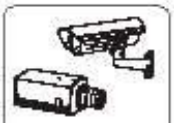
If you need information about the external version, please contact us.

ACCESSORIES

Neopad

PAL/VGA Monitors

DigiprynPrange


Static cameras

BULLE camera P

Mini dome

Train Stations and Airports

Retail outlets

Industrial applications

Other large surfaces

Why should you choose the TUB camera® Evolution 6 ?

Video Optical Transmission Technology	**Highest quality** : the most adapted technology for a mobile camera which allow a permanent and high quality flow of video. **Reliable** : no degradation of video signal due to metal shed. **Secure/Confidential** : Video signal secured (not Radio Frequency)
Telemetry and Power Multiplex technology (TPM)	Optimize the transfer of data signals by multiplexing the power and data signals to the shuttle camera (no joint all through the track).
Odometer function	Anticipate any maintenance work required on the camera and allows you to plan and manage callouts with your service/maintenance provider.
Precise Different Speed software (PDS)	Intelligent, the shuttle camera performs, accelerating and decelerating in a progressive speed. Allows to follow the event with a high degree of precision.
Programme Target Acquisition (PTA)	Enables you to store up to 100 preset positions. Allowing you to completely save and monitor different areas of your premises. New developments mean that you can choose your top ten preset positions, prioritise them, and then have the patrol function watch these 10 positions.
Video Path Management (VPM)	Allows a complete configuration of the camera's travelling function. It is possible to record a video trajectory automatically registering different speeds, angles and distances.
Shuttle Position System function (SPS)	The shuttle camera displays the name of the area it is monitoring on screen. A cursor recognize all the sectors continually, identify the exact position of the shuttle camera within the TUB structure.
Safety mode	The shuttle camera sends a message to the controller if the sensor does not receive all the correct information, it then reverts to the automatic stand by safety position.
Duplex Diagnostic Communication function	The shuttle camera sends and receives back service information with regards to the functionality of the system. It gives additional information about the shuttle camera status.
new Faster than ever	Up to 6 metre per second standard optional 10 metre per second.
new Safety +	The shuttle camera is now equiped with "Safety +" which improves significantly the breaking system of the camera when the camera is arriving at the end of the TUB camera®.
new Emergency position (EP)	You programme the EP for an easy access to the camera when needed (maintenance/call out).
new Joystick/Shuttle logical control	Great function to enable an intuitive control of the shuttle camera with the video.
new Electronic brakes	Allows a better control of the shuttle camera at high speed (reduced breaking distance)

Intuitive control of the TUB Camera® :

▲ To operate the TUB camera® you use the Neopad controller, the specific and most adaptable twin-joystick PTZ+T keypad available for this system. Neopad gives the operator the full functionalities for an efficient and instinctive control of your system: twin joystick for variable speed and precise PTZ+T control.
A new way to manage your TUB camera® !
- Software interface with DVR DigiPryn® for a local control storage of your system.
- PDA control, with Prynpocket® for a remote viewing and control in your hand.

The very latest generation with the Evolution 6 MR !

The TUB camera® Evolution 6 MR. combines more than 25 years of experience and technological development for TEB on one of the most unique products in the CCTV market.
Technology MR., the latest innovation integrated into the TUB camera®, brings much more **reliability and precision** : this new system allows you to manage the deceleration of the camera, optimizes the systems life span, and will control the video shuttle with more precision.
Designed to work in tough environments, this solution is ideal for applications such as Airports, Train Stations, and Industrial plants. Thus, TEB is the only one to propose an **external version** of the TUB camera®.

TUB CAMERA® EVOLUTION 6 MR

Logistics and warehouses

TEB, innovators of the worldwide TUB camera® concept.

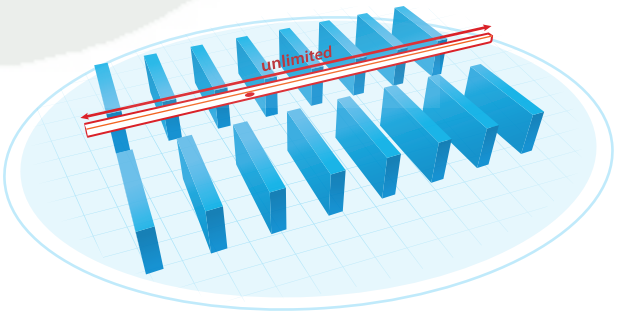
The ideal solution to secure people and reduce losses

Have you ever wondered how some security managers are more successful than others in **reducing their losses** ? And, how this **improves the performance** of their business as a whole ?

For over 25 years, the TUB camera® concept has proven its efficiency as an indispensable security tool. With more than **200,000 metres installed** around the world, the TUB camera® gives you up to 100% coverage of your premises using a single camera. **Why should you install many cameras when one will do the job ?** The length and surface area covered by the TUB camera® is **unlimited**.

The TUB camera® is a high quality concept that offers you the best coverage you could expect from a high performance video surveillance camera. The shuttle camera moves with speed and precision within a discreet tube type structure with fully functioning pan, tilt, and zoom functions.

- High speed : up to 6 meters per second
- Pan range : 360 degrees continuous
- Tilt range : > 90°
- Zoom : 18x optical



A 100% visual cover without any blind spots !

The TUB camera® exceeds all expectations of the traditional solutions in the cctv market such as domes or fixed cameras, thanks to its ability to cover 100% of the area to be monitored.

Its dynamic monitoring principle makes it possible to **anticipate the events** and will give you continuity of evidence **without any information loss**.

Thus, the TUB camera® reinforces your safety system and you can expect **a return on investment** much faster.

intellio

INTELLIGENCE ON YOUR SIDE

INTELLIO INTELLIGENT CAMERAS

Human imperfection can be lovable. But in the security arena it can cost you a reputation, money, even lives. At Intellio, we help you protect public and company assets, ensure safe and smooth operations by alerting to potentially hazardous activity and events. Intellio's intelligent network camera system is based on the next generation of IP cameras with an ever-growing number of intelligent event recognition detectors on board to alert to potential risk events. From the beginning Intellio's system was designed to be scaled. Our cameras work best in large systems deployed in geographically diverse environments and monitored as an integrated system.

Intelligence On Board – Until now, surveillance systems stored video footage and users played it back to watch, helpless, as a crime is committed. Today, the Intellio System recognizes security events and alerts the user to take immediate action to stop the crime. Intellio has developed a revolutionary hardware and software combination that has become an essential tool for proactive event detection and management.

Megapixel quality – Using the best possible image sensors available, the Intellio cameras show great detail. License plates, facial features, special characteristics become visible with the high resolution images provided by Intellio. In term of bandwidth requirements, features such as Intellio's Selective HD Imaging technology make sure that bandwidth requirements remain low.

IOB

FEATURES

- **Scalable infrastructure**
- **Intelligence On Board**
- **High quality megapixel image**
- **Progressive scan CMOS sensor**

CE EMC 1934 RoHS COMPLIANT TÜVRheinland

		ILC-100B	ILC-100E	ILC-100T	ILC-150B	ILC-150E	ILC-150T	ILC-200B	ILC-200E	ILC-300B	ILC-300C	ILC-500B	ILC-500E
Resolution	640x480	x	x	x	x	x	x						
	1024x768							x	x				
	1280x1024									x	x		
	1920x1440											x	x
Image sensor	Micron 1/3" CMOS progressive scan	x	x	x				x	x	x	x		
	Pixim 1/3" progressive scan				x	x	x						
	Micron 1/2" CMOS progressive scan											x	x
Minimum illumination	1 lux, F1.0	x	x	x									
	2 lux, F1.0							x	x	x	x	x	x
	Day&Night 0.6lux/0.1lux, F1.0				x	x	x						
Frame rate	At max. resolution with event recognition	15	15	15	18	18	18	8	8	6	6	6	6
Lens type		C/CS mount											
Auto iris support		Direct Drive lens											
Image settings		Compression level, brightness, contrast, gamma, saturation, sharpen, white balance, shutter time, gain control											
Intelligence Basic	Motion detector	x	x	x	x	x	x	x	x	x	x	x	x
	Turn detector												
	Cover detector												
Intelligence Expert	Abandoned objects detector		x			x			x		x		x
	Protected objects detector												
	Directional detector												
	Entry detector												
	Crowd detector												
Intelligence Traffic	Obstacle detection			x			x						
	Directional detection												
	Restricted area protection												
	Speed detection												
	Traffic counting												
Power		12V / 300mA, POE support (IEEE 802.3af)											
Operating conditions		5 - 40 °C											
Connectors		Ethernet 10BaseT/100BaseTX, RJ-45 Terminal block for I/O (2 alarm input, 1 output)											
Encryption		1024bit asymmetric RSA encryption											
Compression		Intellio Layered Video Compression™											
Dimensions (HxWxD)		50x58x118 mm											

* 640x480 with Intellio Selective High Definition Imaging™ technology

intellio

INTELLIGENCE

ON YOUR SIDE

THE BENEFITS OF INTELLIGENCE 2

IOB

ON-BOARD INTELLIGENCE

A revolution is under way in the IP-based surveillance equipment market, and Intellio is on the front line. Until now, surveillance systems stored video footage and users played it back to watch, helpless, as a crime is committed. Today, the Intellio System **recognizes security events and alerts the user to take immediate action to stop the crime.** Intellio has developed a revolutionary hardware and software combination that has become an essential tool for proactive event detection and management.

IOB

Not only is the Intellio intelligent camera system proactive, it's also more effective. Human fallibility means that an operator watching 16 cameras will miss 95% of all critical events after just 1 hour. An Intellio system can **efficiently detect all critical events, 24 hours a day, across a network of cameras much larger than a mere 16 cameras.**

IOB

Intellio also offers a technological leap forward. The Intellio System allows event recognition and analysis to be handled within the cameras themselves, reducing the burden on servers. This **enables just one server to handle as many as 128 cameras, and therefore, one Intellio system can handle thousands of cameras.** Such a drastic reduction in the number of servers slashes maintenance and operation costs, making the Intellio system a very cost-efficient solution.

IOB

EVENT DETECTION

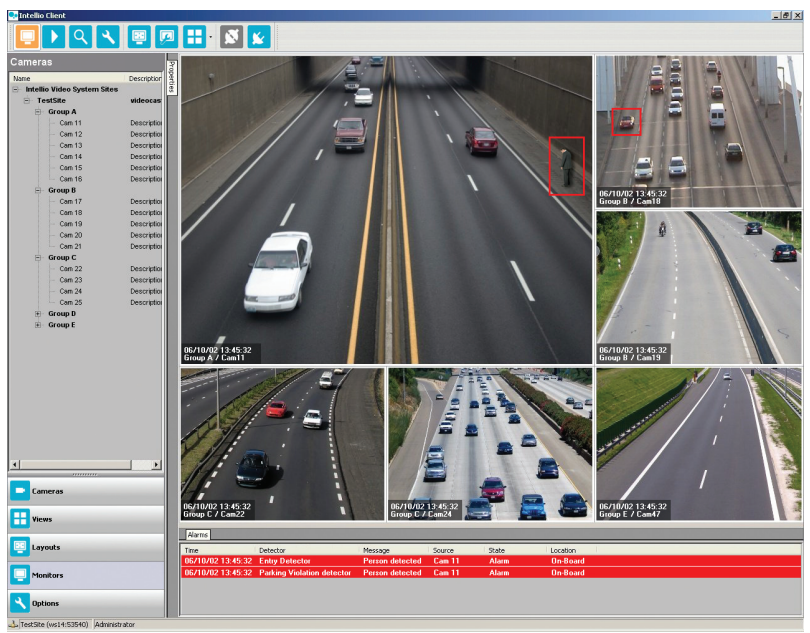
Intellio's intelligent cameras are embedded with a vast range of detectors to identify critical events in progress and immediately alert operators.

Sabotage Protection

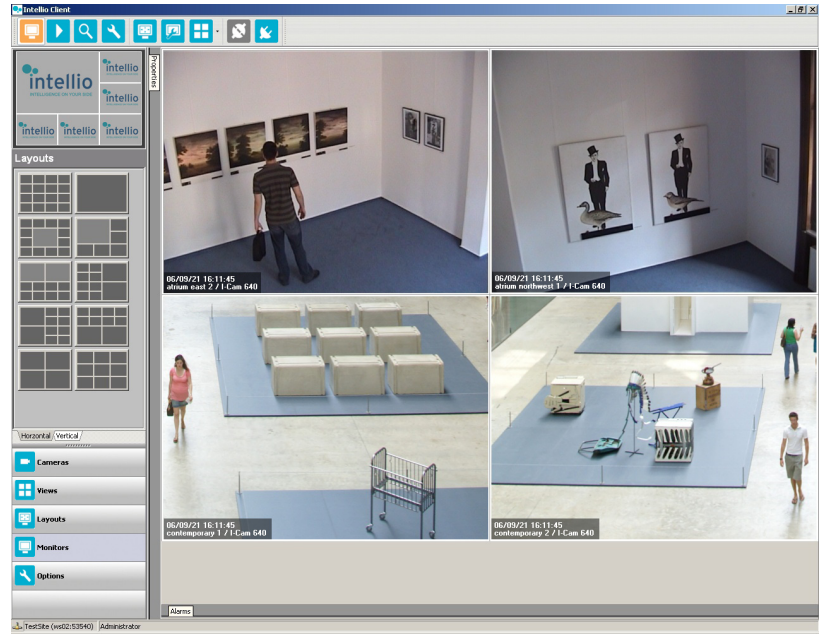
- **Turning and Covering** – detects disabling or obstruction of the camera

Traffic monitoring

- **traffic flow violation** – detects traffic traveling opposite the permitted traffic flow



- **parking violation** – detects parked cars in unauthorized areas
- **speed detection** – detects and records the speed of each car passing the camera
- **license plate recognition** – recognizes and stores license plates with the help of Adoptive Recognition, Hungary's world renowned license plate recognition module
- **obstacle detection** – detects objects or obstacles limiting, disrupting or blocking traffic flows



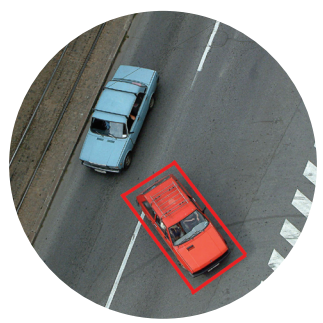
- **vehicle counting** – Counts the number of vehicles passing within the camera's field of view. It is able to differentiate between different object sizes, counting each category separately.

Human behavior monitoring

- **crowd detection** – detects the formation of crowds which can be an indication of a security risk
- **restricted zone protection** – detects people or objects entering restricted areas
- **traffic flow violation** – detects people moving opposite predefined traffic flow
- **running person detection** – detects people moving faster than normal human traffic flow
- **people counting** – counts people passing within the field of view of the camera. It is able to differentiate people traveling in different directions, and count based on this.

Object monitoring

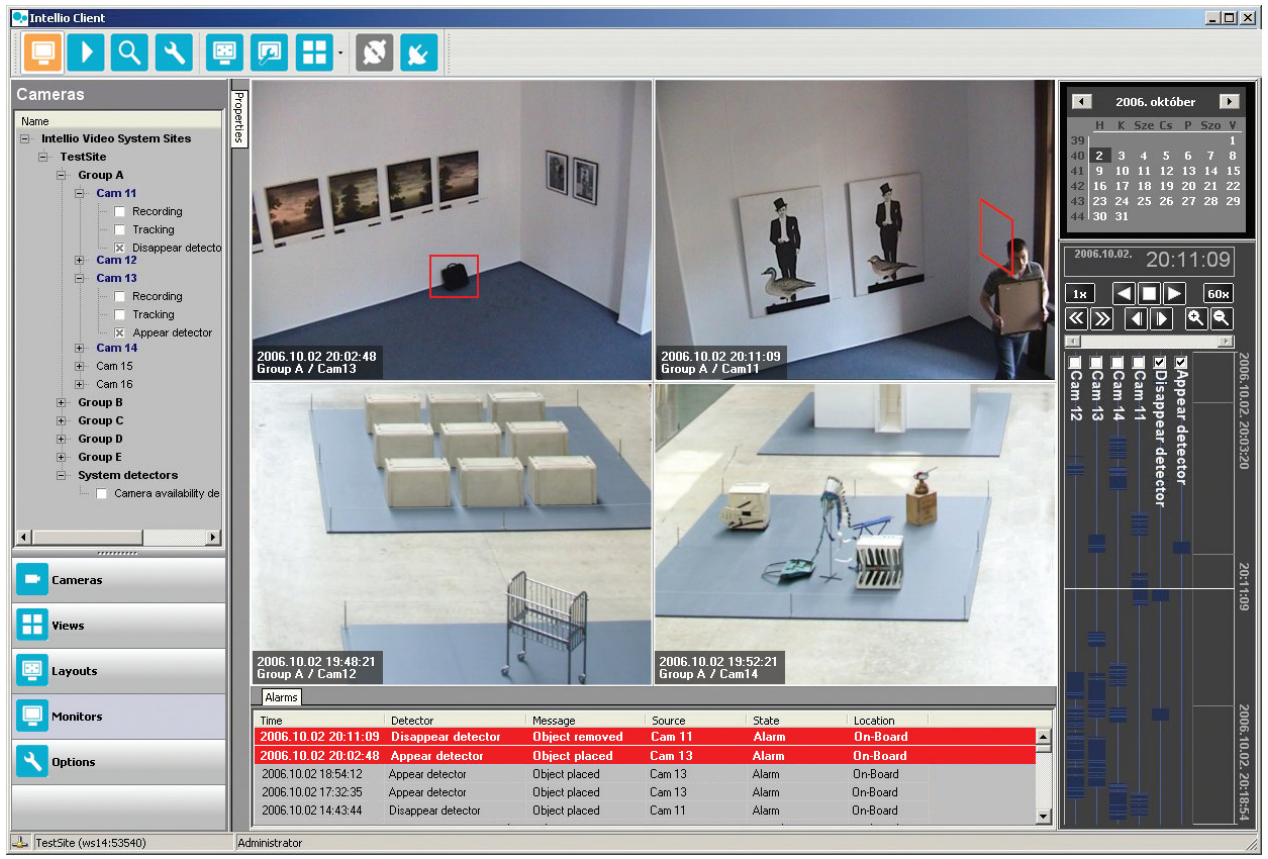
- **abandoned object detection** – detects objects which have been left unattended
- **stolen object detection** – detects the removal of an object which has been put under protection of the camera.



INTELLIO SOFTWARE

Intellio not only provides intelligent cameras – **it has also developed software responsible for configuration, management and monitoring to complement the intelligence of the cameras.** Together, they provide a highly advanced video surveillance system.

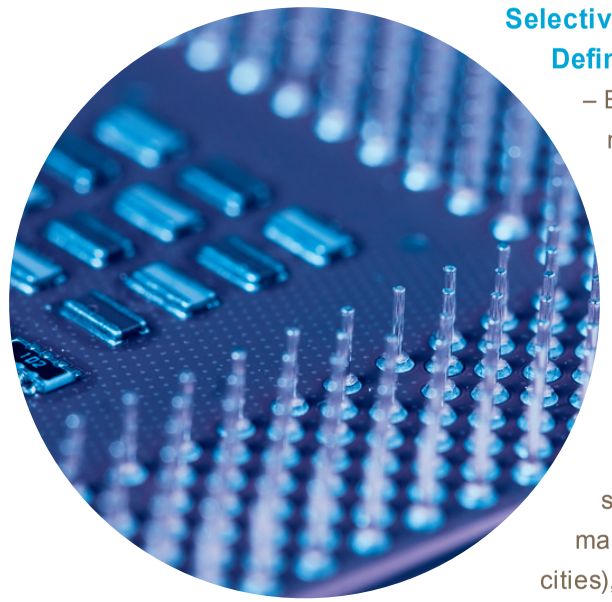
IOB



Event Handling – The Intellio software allows images captured by the Intellio cameras to be viewed in custom layouts on a large number of monitors (monitor wall support). Alerts are displayed in a window so they don't obstruct the view of the user. Both visual and audio cues alert the user to an event (security breach).

Event Playback – The Intellio software provides a separate interface for replaying images. Users can search the images based on past alarms and events, drastically reducing the time required to find and review stored images. All images are synchronized in time and the timeline interface can be fully customized to display only the relevant images to the user.

IntelliZoom – Intellio's newest cameras allow users to view details that can mean the difference between life and death. Intellio's IntelliZoom technology effectively reduces the bandwidth required to transmit high-resolution images. IntelliZoom also solves the problem in which monitoring stations scale down images to fit many footages on each monitor, making it difficult to detect events and follow detail. IntelliZoom software automatically enlarges the parts of the images which have movement in them to their maximum resolution, enabling the user to see the details, while static areas are neglected as they are less important in terms of security.



Selective High Definition Imaging – By selecting images in motion, IntelliZoom offers a revolutionary way to optimize bandwidth in its intelligent cameras. Selective HD Imaging makes scaled-down images show the relevant details in full resolution, while keeping the static parts of the image at low resolution.

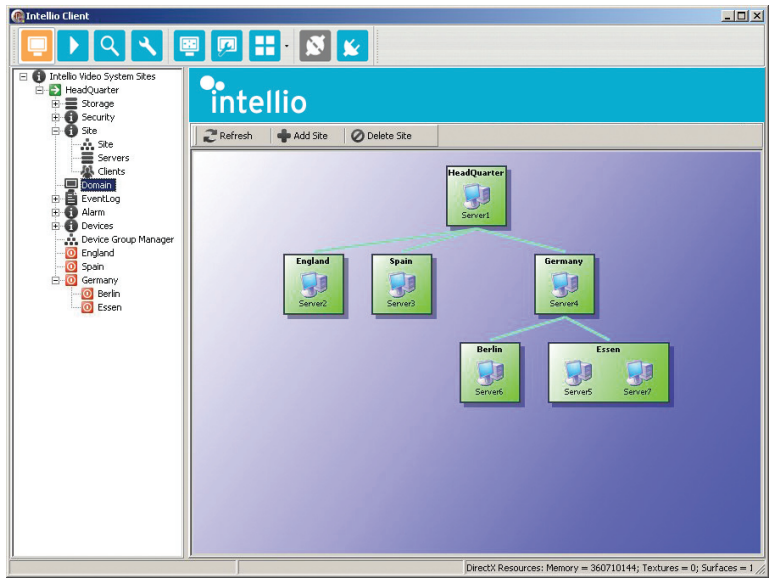
Site / Domain – Intellio's software enables the user to create virtual servers- **Sites**. When there is more than one server, the system creates a Site which acts as one large virtual server, sharing resources and optimizing performance. When there are many Sites within a network (e.g.: warehouses in many different cities), the Intellio System enables the user to organize them in a hierarchical structure, or **Domain**, which integrates the security and user management roles within the whole system.

Intellio Essential	Entry level software package, maximum 1 server	Low startup cost, intelligent system, easy to install and manage
Intellio Enhanced	Extended functionality, 1 Site capability (multiple servers)	Easy upgrade, advanced scaling options, greater control
Intellio Superior	Full functionality, 1 Domain capability (multiple Sites)	Maximum scaling potential

SYSTEM ARCHITECTURE

The combination of Intellio's intelligent cameras and its software makes the Intellio System a powerful surveillance tool on a large scale. Intellio's system, **specifically designed for medium to large installations, carries intelligence within itself – Intelligence On Board – allowing it to adapt to situations and modify its operation.**

IOB



DOMAIN

The Intellio System's **Domains** allow the operators to configure and monitor cameras without the need to identify the server to which a particular camera is assigned.

Domains **drastically reduce the time and energy spent on the maintenance, configuration and operation of the system.**

IOB

Through Intellio's software, users go through a single login process allowing them to see just as much as they are permitted. A fully authorized user (administrator) will see all the servers and cameras within the domain without further logins.

DYNAMIC LOAD DISTRIBUTION

The Intellio System gives a network maximum performance and maximum stability. If cameras monitoring outdoor areas, for example, are receiving much more information than those monitoring office corridors, Intellio's Dynamic Load Distribution automatically reallocates cameras in heavy use to servers with extra processor or storage capacity, balancing overall server use.

INTELLIO AUTO REROUTE

The Intellio System ensures that a camera is always recording, a feature essential to security. While most of today's cameras will not record once the server behind it goes offline, Intellio's technology ensures that **all footage will be stored as long as at least one server is operational** within a Site.

IOB

In the Intellio System, if one (or more) servers go offline for any reason, it no longer presents a security risk during the malfunction. In the Intellio System, once a server is recognized as offline, the cameras related to the malfunctioning server will be redistributed among the other servers, even if the other servers are working at full capacity, by lowering the frame rates of the cameras. This feature ensures **constant recording and event detection within all cameras of the network.**

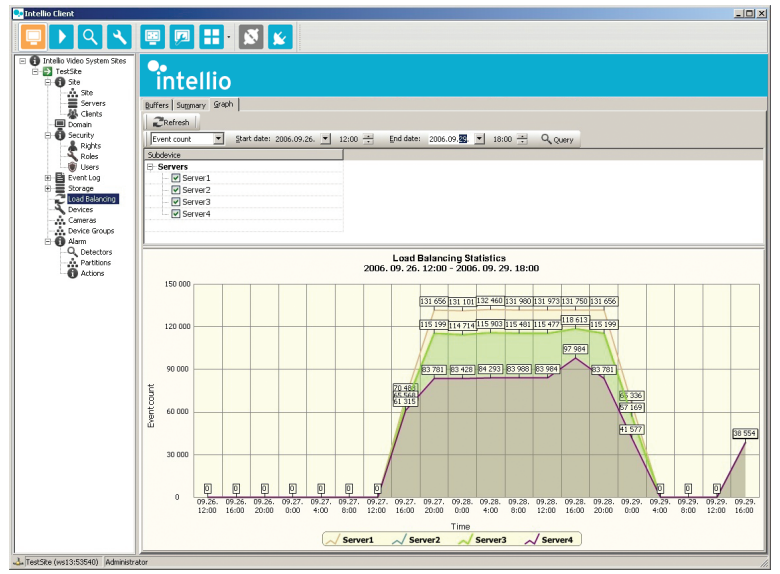
IOB

CENTRALIZED RIGHTS MANAGEMENT

The Intellio System is equipped with **highly advanced authentication and rights management which ensures that only authorized users access the images.**

IOB

This management combines simplicity with accessibility.



In the Intellio System, each user is issued a unique user name and password, and is assigned a certain role, which enables or prohibits them from accessing or altering certain parts of the network. In an office building, for example, the facility management company will be able to access the cameras monitoring the utilities rooms and access corridors, the security detail will see the hallways, staircases and entrances, while the head of security will have access to all cameras within the network. With the single login authentication of Intellio system, once a user is logged in, they will be able to view all cameras according to their role regardless of the server, without having to sign in to each server.

INTELLIO ENCRYPTION

The Intellio Encryption module fulfills even the highest security requirements with its 1024- bit asymmetric encryption standard. This level of security is used in all channels of communication from the cameras to the servers and even to the client computers. **This guarantees that no one will be able to access and modify the images.** During connection, each camera is identified by the system individually, making it impossible to maliciously switch cameras or replay previously recorded images to hide malicious intent.

IOB

The Intellio System stores the files using the operating system's highest security standards: files cannot be accessed by outsiders.

IOB

Intelligence On Board = IOB

RoHS COMPLIANT

TÜVRheinland

security installer
number one for all professionals
may 2005
www.security-installer.co.uk

Total Eclipse!

on test: Vista's 360 degree camera

The use of a 3 megapixel CCD has helped enormously to improve resolution

'solid state' design, free of all moving parts – not even a cooling fan – undoubtedly contributes to the unusual flying saucer shape. The camera housing is basically one large heat sink with rows of cooling fins on the top of the case.

The main processing chips have a lot of work to do and they get very hot indeed. In fact the unit runs quite warm, so some care needs to be taken with the installation, to ensure there's a good flow of cooling air over the finned top surface. The camera is designed for discrete ceiling mounting so that only the lens need be visible (it can also be configured for wall mounting) and it comes with a comprehensive fixing kit.

Setup and operation

Access to the camera's setup functions is via an on-screen display, and the main menu appears after a 4-digit PIN code has been entered into the control unit. This is an unnecessarily long-winded business using the joystick, which is odd in view of the fact that the controller has a digital keypad...

The opening menu displays six options: Presets, Tours, Sectors, Motion Detection, Privacy Zones and Configuration. Menu selections are made using the joystick and confirmed with the Enter button. The Preset menu displays the preset number and a sub menu, to set a position. It's very straightforward; simply move the camera to the desired location, set the zoom, then store the preset by pressing the Enter button, then repeat as necessary up to a maximum of 128 presets for each VCAM. The Tours menu has two options. The first is for creating up to four tours per view using pre-programmed presets. The second is for 'learning' up to four tours by recording real-time movements of the joystick and zoom control. These can be subsequently edited, though we found it was usually quicker to delete the recording and start over.

The Sector menu allows up to 75 areas of the image to be identified with an on-screen label. Sectors are defined using the joystick to 'draw' a superimposed rectangle outline on the chosen VCAM monitor display. A similar technique is used to designate motion detection zones (up to 75), and when activated they display an on-screen message and trigger an external alarm.

The motion detection system is also able to make the camera track a person or object as it moves around the image area. Sensitivity and zoom levels can both be adjusted and motion detection can be scheduled to switch on and off at preset times each day of the week. The Privacy Zone feature blanks off a designated area of the image; it's dynamically controlled so it remains in a fixed position when the camera moves.

Although the Eclipse has a familiar set of options for a PTZ camera, some operations on the controller are not as straightforward as you might expect. For example, camera view and VCAM selection is assigned to the controller's Focus buttons, which makes displaying a particular VCAM image full screen a bit of a palaver.

Setting up the motion detection system in each VCAM also takes a bit of getting used to, → P.22

PHOTOGRAPHY: TOM DOBBIE

Factspanel

Equipment	Vista Eclipse
Product group	360 degree cameras
Application	360 degree vision
Manufacturer	Vista
Address	Norbain House Eskdale Rd Winnersh Triangle Wokingham Berks RG41 5TS
Telephone	
Fax	
Email	
Available from	Norbain SD, SEE, CCD
Trade price (ex VAT)	
CE Mark awarded	Yes
Mono or colour	Colour
Lens	F-Theta 2.8mm
F no	1.8
Vertical angle of view	176 deg
Horizontal angle of view	360 deg
Interchangeable lenses	Yes, C mount, software re-mapped to suit
Pick-up device	ti 4:3 CMOS
Pixel array	2048 x 1536 3 Megapixel
Resolution	>600TVL
Sensitivity	2 lux
Preset view positions	128
Size in mm	211mm x 118mm
Housing material	Aluminium
Power supply voltage	12v DC
Maximum current consumption	1.6A
Warranty	5 years

Total eclipse

The 'solid state' design calls for rows of cooling fins on the top of the case

The Vista Eclipse represents a genuine milestone in CCTV technology…

The bench test [1]

What our experts say …

IT'S NOT OFTEN WE GET TO USE THE WORD 'anamorphosis' in a Bench Test, name-drop the likes of da Vinci, Durer and Holbein, or link 16th century art with video surveillance technology – but don't worry, it should all become clear shortly.

Anamorphosis, for those whose ancient Greek is a little rusty, means transformation, which brings us to that trio of well-known artists. Every so often they were commissioned to do secret paintings of a banned saint or someone – usually a woman – who for one reason or another didn't care to have their likenesses bandied about.

Their solution was a clever trick, known in the trade as anamorphosis, which is a way of distorting an image so that to a casual observer it looks like a colourful splodge. However, when it is viewed in the reflection of a curved or cylindrical mirror, the distortion disappears and the shape and detail in the painting is revealed.

By now you are probably wondering what all this has to do with the Vista Eclipse camera, but if you look closely at the long lens barrel sticking out of the bottom, you should spot the tip of a bulbous 'fisheye' lens on the end. When suspended from a ceiling, the camera provides a circular 360-degree panoramic image of its surroundings. However, this is far too distorted to be of much use for detailed viewing.

By employing a combination of electronic zoom, which enlarges a selected portion of the image, and Vista's 'Imtera' digital processing – the microchip equivalent of the curved mirror – the skewed perspective is corrected, and the chosen section of the picture appears as a normally proportioned CCTV image.

By 'moving' the area of the image with a joystick you have, in effect, a pan/tilt/zoom camera, but with no moving parts whatsoever! The Eclipse also has two independent video outputs, each of which can display up to four 'virtual' camera (VCAM) views from any part of the fisheye image on two monitor screens at the same time, producing two quad PTZ displays from a single camera. Couple that with motion detection, motion tracking, privacy masking, alarm inputs plus a host of extra facilities, and we have one of the most innovative products we've seen for a very long time. The camera has a number of display modes, including full frame panoramic (fisheye), split screen 180 degree, quad 90 degree views and combinations thereof, with or without 'thumbnail' picture-in-picture displays of alternate VCAMs, but since only part of the image is being displayed – when the unit is in multi-camera mode – there would naturally be a big problem with resolution if it used an ordinary image sensor.

To overcome this the Eclipse is fitted with a 0.5-inch, 3 megapixel (2048 x 1536 pixels) CCD. It has a low-light sensitivity of 1.0 lux and a day/night mode that switches to monochrome when light levels fall below a preset threshold.

Since it has the core features of a PTZ camera, the designers have taken the next logical step and incorporated programmable preset positions, which can be combined into tours, either using the presets, or by 'learning' a manual routine. Motion detection is fairly common these days, but once again the Eclipse goes a stage further with motion tracking, a particularly impressive feature that's more commonly associated with high-end systems. Vista's decision to go for a fully

← and the need to exit the setup menu to check settings, then re-enter a password to get back in again, can be a little tedious as it requires a lot of joystick twiddling and button pressing, and it definitely pays to keep the instruction manual close to hand.

Performance

The Eclipse manages to pull several surprises, but first the big questions. How does picture shape and quality compare with a normal PTZ camera, bearing in mind that in most display modes you are seeing a small portion of a highly distorted image, which has been electronically stretched, tweaked and zoomed?

In short it's not as good, which is to be expected, but on the first count, picture shape, it stacks up really well. Distortion is evident when the picture zooms out and the edges of the lens intrude into edges of the picture, but as you zoom in it assumes more or less correct proportions and from around 50 per cent zoom onwards it looks perfectly normal.

As far as picture quality is concerned, the use of a 3 megapixel CCD has undoubtedly helped enormously to improve resolution. In good light it really is quite reasonable, with a fair amount of detail, comparable with a decent budget camera. However, once light levels start to fall the image starts to show signs of striation, with fine lines crossing the picture, and judging by their shape and orientation these are being produced by the lens. Picture noise levels also rise quite quickly, and even with assistance from features like Night Mode, this camera lags some considerable way behind its more conventional rivals.

Problems that we had anticipated with exposure and colour balance didn't materialise. We had expected difficulties when VCAMs were viewing scenes with widely differing light levels. However, each VCAM image is processed separately – presumably this is partly responsible for the relatively slow 12 fps refresh rate – so a quad display looks as though it is coming from four separate cameras, each making its own independent exposure and colour adjustments.

In most other respects it behaves just like a regular PTZ camera – the zoom facility is smooth, progressive and linked to the pan/tilt control so that fine adjustments are possible at high zoom settings, though being wholly electronic, the picture is noticeably degraded. The camera is mechanically very stable and immune to physical shock. Moreover, the lack of any moving parts should mean that it will be very reliable, with nothing to wear out.

*** Reader Service No 100 (or go to www.security-installer.co.uk/enquiries and key in 100)**

Productassessment

Design and design features	★★★★★
Circuitry and components	★★★★
Ease of installation and wiring	★★★★★
Range and variety of functions	★★★★
Technical advice and backup	★★★★
Accompanying instructions	★★★★
Value for money	★★★★

Grading Key: Outstanding ★★★★★ Very good ★★★★ Above average ★★★ Average ★★ Below average ★

By 'moving' the area of the image with a joystick you effectively have a PTZ camera with no moving parts

What the manufacturer says ...

Vista Eclipse represents a breakthrough in 360 degree camera technology that will transform surveillance operations wherever full situational awareness is essential to a successful surveillance operation. The Vista Eclipse represents compelling value where:
1Installation and maintenance savings can be made by employing multiple 'virtual cameras' to replace several conventional cameras
1More in-depth information surrounding alarm events is required
1The unit's embedded intelligent video processing technology will improve security system productivity
1State of the art discreet surveillance is a requirement
In a single unit the Vista Eclipse achieves what numerous static and dome cameras cannot achieve together. In particular, it provides continuous panoramic vision and offers subject tracking throughout a 360 degree field of view. Installers will appreciate its standalone design, an absence of moving parts, and the incorporation of imaging software embedded in the camera eliminating the need for external software or PCs. This all leads to a lower installation and maintenance cost.
Vista Eclipse works by capturing a single fisheye image that generates two completely independent analogue outputs. Each of these two independent analogue outputs can display any combination of image view, from full 180 degree panoramic view to up to four virtual cameras (VCAMs), each with independently controllable 'electronic' Pan Tilt Zoom (ePTZ) functionality. Intelligent video processing enables advanced alarm functionality that includes the automatic assignment of virtual cameras for motion detection and alarm activation. The active 'VCAM' automatically tracks any movement within the camera's field of view. Motion detection algorithms use state of the art background analysis techniques to minimise false alarms. Motion detection automatically triggers a VCAM while the camera continues to monitor the full panorama.

Overallassessment

The Vista Eclipse represents a genuine milestone in CCTV technology, and is a very convincing demonstration of some truly innovative technology that promises to revolutionise camera design. Nevertheless, at this early stage in its development, it is not yet an alternative to a conventional PTZ camera for installations where image quality is a top priority.

Picture performance, whilst impressive, still has some way to go, but that certainly doesn't rule it out for general surveillance duties, particularly in applications where a 'normal' dome or PTZ camera would be intrusive, and monitoring movement is more important than capturing fine detail.

Sentry*Chroma*™

Color and Fast Frame Rate for Sentry*Scope*™ Cameras

Sentry*Scope* is the highest resolution surveillance camera in the world, providing up to 21 million pixels per image. Now, Sentry*Chroma* adds a powerful second tool to real-time and forensic video analysis.

SPECTRUM San Diego, Inc.

Two advanced cameras plus data fusion

Sentry*Chroma* is a separate three Megapixel color camera mounted next to Sentry*Scope* and viewing the same wide area. The two image streams run over separate Ethernet connections to a single Sentry*Server* for storage and review. Clicking an icon switches from one surveillance record to the other, displaying the corresponding video from the same time and location. Complex events can be quickly analyzed– in ultra-high-resolution, color, and at a fast frame rate. Sentry*Chroma* can be added to new or existing SentryScope installations.

Sentry*Scope*

Ultra-High Resolution

21 Megapixel; B/W

up to 2 frames per second

Sentry*Chroma*

Color; Fast Frame Rate

3 Megapixel; full color

2 to 12 frames per second

"The Best of Both Worlds"

The dual-camera advantage

Sentry*Scope* is unmatched in its ability to provide clear images of faces and license plates while monitoring large areas. This ultra-high resolution requires black and white operation at a relatively low frame rate. Sentry*Chroma* fills in the missing information, providing the color of vehicles and clothing, plus the details of fast moving scenes, such as the activity of the hands. Complete information is provided for the security professional.

Powerful, easy-to-use display tools

Sentry*Ware*, the software package running on Sentry*Server*, aligns the two video records by time and image location. Color, fast motion analysis, and ultra-high-resolution information are fused in a single easy-to-use interface. All of the Sentry*Scope* image enhancement controls are also used with the color images. Training is a snap; persons familiar with Sentry*Scope* can start using Sentry*Chroma* with virtually no training.

Capture all of the details, all of the time

Unlike PTZ cameras that must be manually controlled by an operator, Sentry*Scope* and Sentry*Chroma* continually record the complete region. Nothing is missed, even if the operator is absent or distracted. The ultra-high resolution and fast motion sequences are always available, regardless if the event is being viewed live or days after the fact. Manned or unmanned, nothing gets by Sentry*Scope* and Sentry*Chroma*.

SentryChroma Specifications

Image resolution: *2,048 x 1,530 native pixels; cropped to match the selected SentryScope field-of-view.*

Image rate: *User adjustable from 2 to 12 frames/second.*

Image storage: *Typically 120 Gbytes/day required for continuous recording of both image streams at 8 frames/second color. About 7 days recording on 1 Tbyte storage.*

Light level: *Internal AGC adjusts sensitivity from street-light illumination (1.5 lux) to bright sunlight.*

Focusing: *Automatic or manual focusing;controlled remotely from the operator station.*

Connectivity: *Uses a dedicated Fast Ethernet connection between the camera and SentryServer (CAT5 cable, fiber optic connection or high-speed wireless).*

Electrical: *18-24 VDC, 1A; connects to the 120/240v 50/60Hz power supply provided with SentryScope.*

Operating temperature: *Standard internal heater allows operation from -55° to 50°C (-67° to 122°F)*

Preliminary specifications; subject to change without notice. Protected by U.S. Patent 6,757,008; other patents pending. SentryScope, SentryChroma, SentryWare, and SentryServer are trademarks of Spectrum San Diego, Inc.

FOR MORE INFORMATION PLEASE CALL +965-4750757

UNITED EXPRESS INTL.

P.O BOX 1617, 81027 FARWANIYA

KUWAIT.

PRODUCT CATALOUGE

FOR

TOUCH SCREEN DVR

HAYDON
Touch1600

Touch Screen DVR

17" Touch Display

16 Video & 4 Audio Channels

Network Enabled

On Screen Touch PTZ Controller

Seagate 500 Gb Hard Drive as Standard

Touch1600 - Touch Screen DVR

HARD DRIVE: Seagate 500 Gbyte

17" TFT LCD Touch Screen Panel: 1280pixel (H) x 1024 pixel (w) **(maximum screen resolution)**.

Frame Rate: 100FPS

Compression: MPEG 4

Unlimited Users all password protected with different levels of access.

Inputs: 16 BNC Cameras inputs
4 Phono Audio Channel Inputs
RJ45 for Network/LAN
16 Alarm Inputs (with optional SDIO unit) N/O or N/C options
PS/2 Mouse Port (On screen TOUCH version standard)
PS/2 Keyboard Port (On screen TOUCH version standard)
6 USB 2.0 Ports 1 x included for RS232R to USB connectors Maximum 3 per system.
USB to RS232R connectivity for POS, PTZ Control, SDIO &Access Control units
Mic-In: to connect microphone. 3.5mm Jack,
Multi Media Card Reader - Supporting
Compact Flash I/II, IBM Micro Drive, Smart Media, Secure Digital, Mini SD, Multi Media Card, RS-MMC, Memory Stick, MS-Pro, MS-Duo, MS-magic gate & excellent digital.
The card reader is automatic card detection. It supports hot swapping between cards and copying among different media or cards

Outputs: 8 Alarm Outputs (with optional SDIO unit)
2 x Phono for Video Output. In Full Screen or Switching Modes.
CDWriter/DVD Player Combo Drive
USB 2.0 Ports ideal for pen drive data evidence storage
Multi Media Card Reader
3.5mm Headphone Socket

Display Full Screen, Single Camera, Quad, 7, 9, 13, 16 & Switching modes
On SCREEN TOUCH MOUSE
On SCREEN TOUCH KEYBOARD

Video Output: **AVI video format**. This can be played in most media players on any PC. Also you can take a backup of the file in exe. format which will playback with its own viewer.
BMP. (watermarked for authenticity) for stills
JPEG for stills
JPEG with Time period for stills

PTZ Control: Over 40 protocols preloaded for PTZ control. On screen touch controller with presets and touring.

Camera Motion Detection: This can be set up to zone each camera individually and to set sensitivity.

Object Movement Detection: This function allows you to check movement in a specific area to pinpoint when something was moved. Also known as Museum Mode.

Mosaic / Privacy Zones: It only takes a few seconds to mask out part of a picture that may be infringing someone elses privacy.

People Counting Facility: This is a 2 zone detection system providing much more accurate counting. As this is a detection based system it can also be used for vehicle counting.

Access Control Integration: Allowing the DVR to function in conjunction with your access control system. (subject to compatablity)

POS Integration: TOUCH1600 can integrate with till systems 4 protocols installed.

Dual Event Logging: Both DVR and Remote access. Unlimited daily reports available. Instant on screen event log always in view.

Internal Alert System: Giving audible warnings that the system has lost Video signal, Video or Audio Capture error's, recording errors & failing to write to disk errors.

Dimensions: DVR 540(W) x 330(H) x 125(D) mm. (415mm height inc base) weight 12kg
Boxed Dimensions 645(W) x 520(H) x 230(D) mm weight 14.5kg

Optional Equipment: VESA WALL MOUNT, SDIO (alarm input/outout unit), USBRS232R-10 Leads.

PRODUCT CATALOUGE

FOR

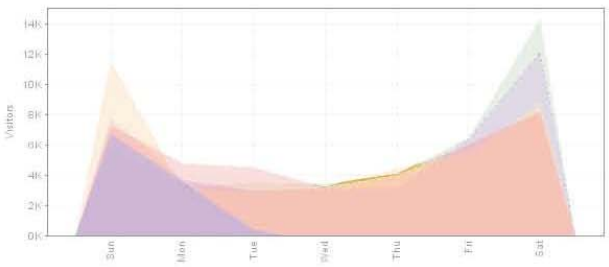
HEAD COUNTING SYSTEM

Visitor Trends Reporting

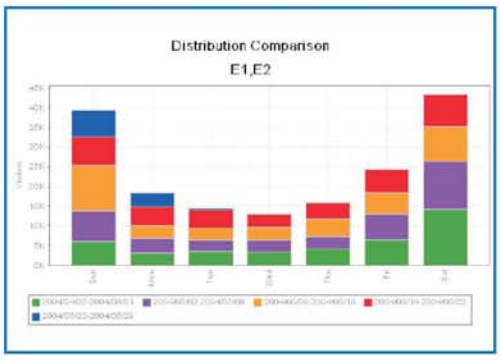
Counting People with a Video Turnstile CCTV System

With the Video Turnstile system it is easy to monitor visitor numbers. But it's what you do with the data you've collected that counts. Our VisitorTrends reporting packages should fulfil your requirements, but if not you can choose from a range of other analysis software.

- ☑ Included with each system is *VisitorTrends Lite* software: easy-to-use with a range of interactive charting and information options.
- ☑ Optionally, you can view your data over the Internet through a *VisitorTrends web portal*.
- ☑ The raw data is saved on your PC in text format, so you can view and manipulate the counts in *Microsoft Office* and many *other applications*.
- ☑ Spot trends, patterns and anomalies.
- ☑ View live and historic data.
- ☑ Combine data from many sites or areas.
- ☑ Receive threshold triggered alerts, for example if the number of visitors exceeds a given level.
- ☑ Calculate conversion rates.
- ☑ Evaluate change.
- ☑ Measure performance.
- ☑ Adjust staffing levels and opening hours to match customer flow.
- ☑ Printed reports.
- ☑ No on-going charges.

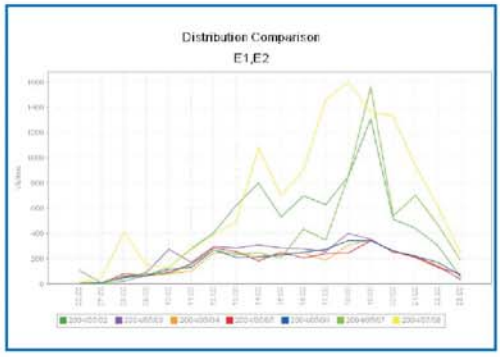


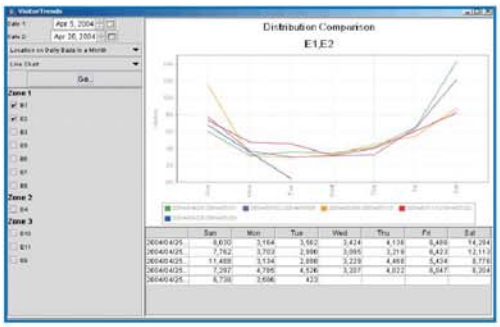
"Statistics in real-time plus the ability view long-term trends, just what I need"



This chart was created by the VisitorTrends Lite software. It shows the number of visitors each day of the week over 5-week period.

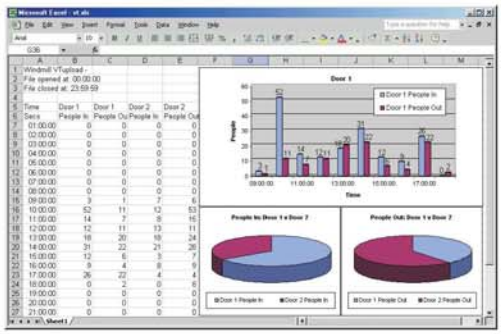
Here VisitorTrends Lite shows visitor numbers per hour over the course of a week .

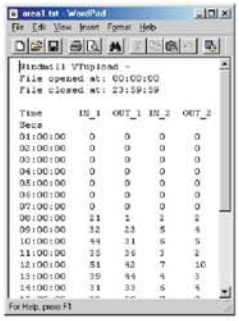




Choose the period to analyse, which zones to compare (one store versus another for example) and the type of chart.

You can also use Excel to analyse data.





The raw data is saved in a text file on your PC, so it's easy to check the counting accuracy.

Monitoring Performance

Real-Time Charts and Historic Data Analysis

For quick and easy analysis of data, we supply the VisitorTrends Lite software free-of-charge. This charts your data and lets you spot real-time and historic trends. You can also create printable reports in PDF format.

Web Portal Reporting

Another option is to view your data over the Internet through a web portal. You will be regularly e-mailed daily, weekly or monthly reports. The web site will automatically check the raw data and alert you to abnormal situations, such as if data for a Monday is outside the normal bounds for that day. You can also view events which have an impact on visitor numbers: weather information and school holidays for example. Finally you can compare people counts with other information such as sales data and special promotional events

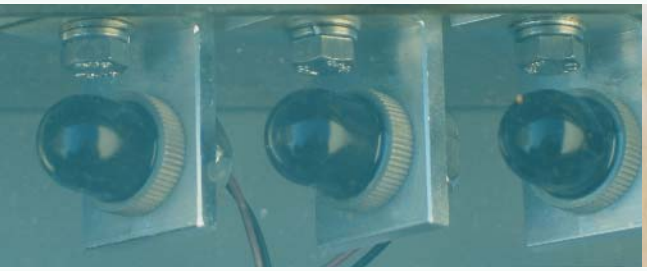
Microsoft Office and other Applications

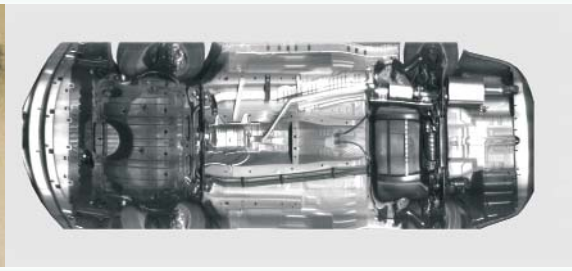
Perhaps you would prefer to analyse your data in a spreadsheet like Excel? As the raw count data is stored on your computer in ASCII text files, you can import it into most other reporting software, including Microsoft Office applications.

PRODUCT CATALOUGE

FOR

VEHICLE DECTECTION SYSTEM





SECUSCAN

Under Vehicle Monitoring System

More Safety with Technology from Signalbau Huber

Traffic in motion

Signalbau Huber

More Safety with SecuScan

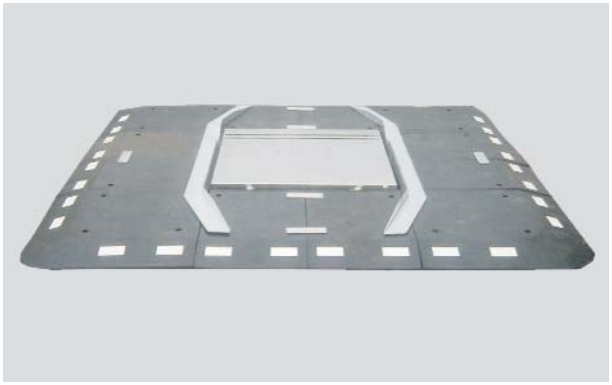
SecuScan is the Under Vehicle Monitoring System from Signalbau Huber. With its innovative technology, the system supports fast and easy detection of dangerous objects as, for instance, weapons and explosives, drugs and contraband as well as safety or quality defects (e.g. rust).*

In contrast to conventional vehicle underside control methods, like hand-held mirrors or inspection wells, SecuScan facilitates reliable safety inspections without slowing down the flow of traffic at the access point.

Range of Application

Whether as a mobile or a static system - SecuScan offers a wide field of applications:

- Protection of airports, military institutions, embassies, nuclear power plants, penitentiaries as well as other high-profile installations
- Border controls
- Parking garage access controls
- Security checks at sports events or other large-scale events
- Mobile vehicle controls by the police

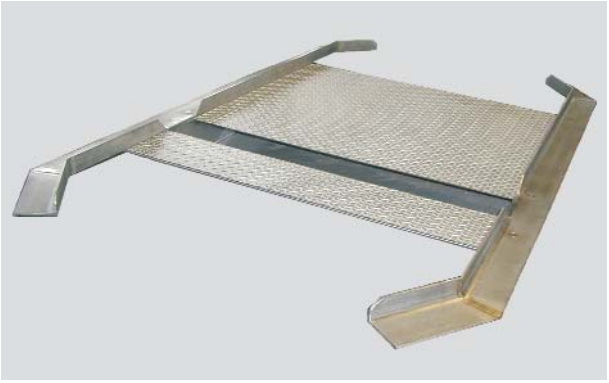


SecuScan as a Mobile System

- For flexible safety controls at changing inspection sites
- Fast assembly and disassembly as well as uncomplicated transport
- For all vehicle weight classes and track widths

SecuScan as a Static System

- For sophisticated safety inspections in connection with a comprehensive access control system
- Mounting into the road surface with little constructional effort
- High load capacity



* SecuScan does not provide automatic detection of suspicious objects but serves the security staff as a supportive tool for vehicle inspection.

System Structure and Functionality

The Under Vehicle Monitoring System SecuScan essentially comprises a scanning unit, a workstation, traffic lights and a light barrier; depending on the system option, SecuScan uses hard-rubber pads and protection ramps for the mobile system as well as a steel construction for the static system. In addition, SecuScan can be upgraded with a variety of additional options.

The scanning unit (height = 9 cm/3.5”) consists of a line camera, a mirror and an infrared LED lighting unit. Through a small slit in the scanning unit, the camera captures the entire underside of a vehicle in moving traffic.

In order to display the underside to scale, different heights of undercarriages (car/truck) as well as the vehicle length are taken into account. The underside is then displayed as high-resolution image on the screen.

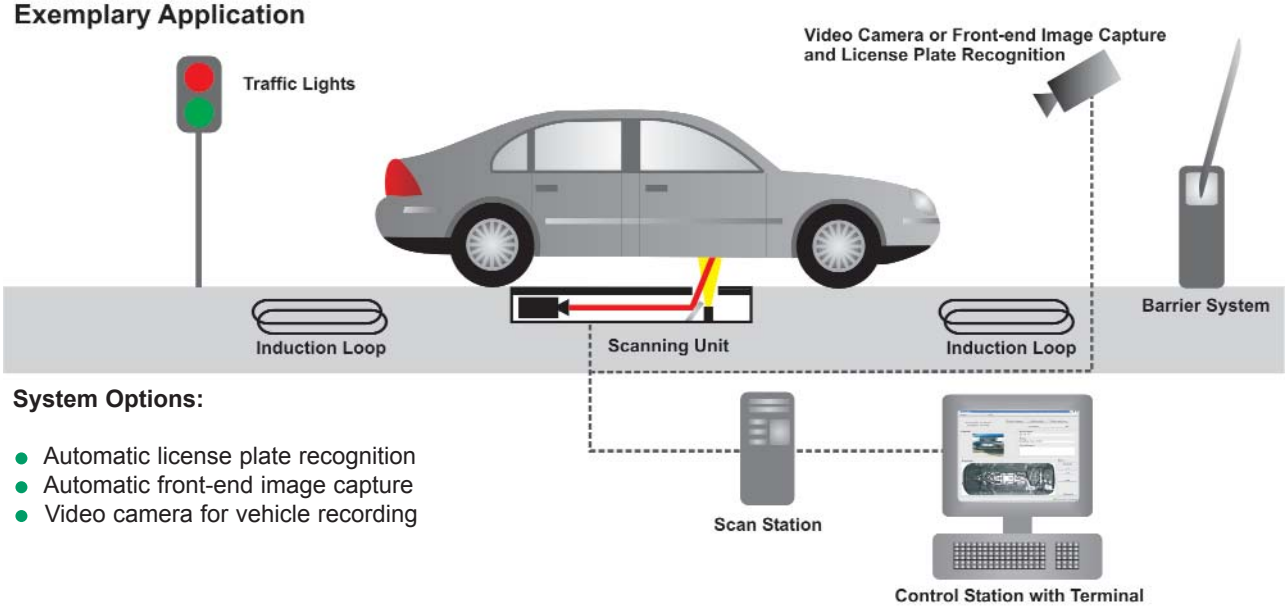
To simplify the correlation between the underside images and the corresponding vehicles, an optional front-end image capture camera as well as automatic license plate recognition can be integrated.

The SecuScan software provides the guards with all collected vehicle data on the control screen. Additional information can be entered manually.

Zoom capabilities support the identification of details up to a size of 5 mm (0.2”). This facilitates the fast and efficient detection and analysis of suspicious objects.

All the data collected or manually entered can be stored in a database under the vehicle license plate number. In case of recurring vehicles, the software provides the possibility to compare the current underside image with an already archived one of the same vehicle in order to identify potential deviations at a glance.

Exemplary Application



System Options:

- Automatic license plate recognition
- Automatic front-end image capture
- Video camera for vehicle recording

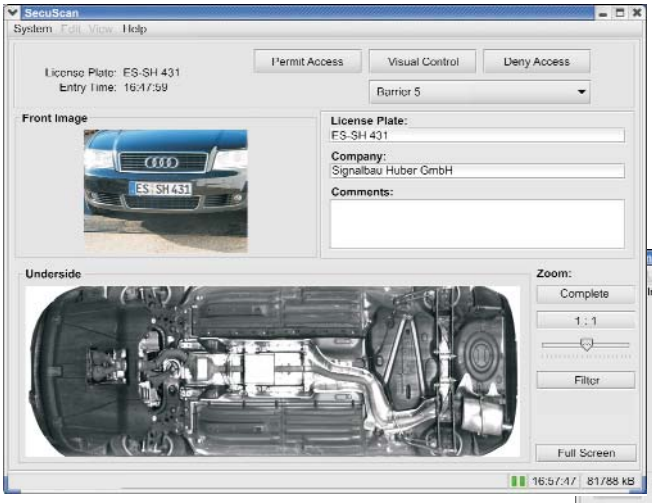
Performance Features

Scanning-Unit

- Dimensions: approx. 100 x 100 x 9 cm
  (39” x 39” x 3.5”)
  (L x W x H)
- Max. speed: up to 40 km/h (25 mph)
- Max. vehicle length: approx. 20 m (66 ft)
- Suitable for all vehicle weight classes
- Suitable for all track widths
- Solid stainless steel components
- Extremely weather-resistant
- Competent service and maintenance
- Optional mounting into the road surface

Server and Software

- Linux operating system
- SQL database for up to 10,000 data records with comfortable search function
- Easy operation
- High-resolution images with zoom capabilities up to details of 5 mm (0.2”)
- Visual image comparison by the security staff
- German and English software version (all other languages on request)
- User authorization and help function
- CD-Rom software updates
- Remote maintenance with integrated modem
- Easy export of data and images
- Integrated CD writer
- Implementation of existing barriers and traffic light systems

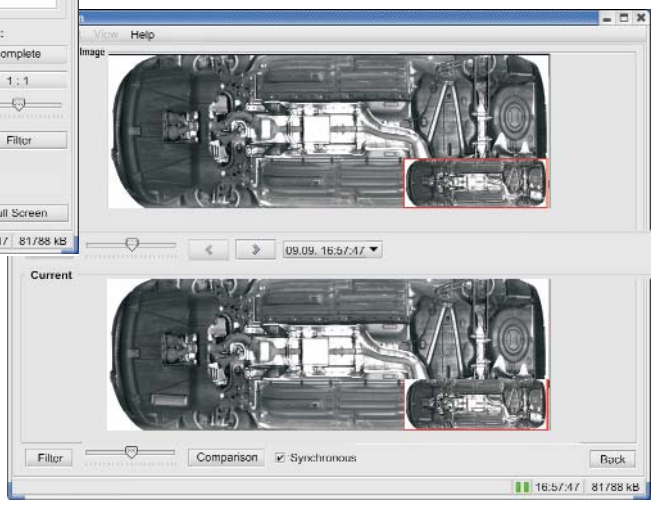


SecuScan User Interface
Display of

- Underside image
- Front-end image (optional)
- License plate number (optional)
- Date & time
- Driving lane (optional if more than one)
- Manual input of additional information

Visual Image Comparison in case of recurring vehicles

Comparison of already archived and current underside image of the same vehicle by the security staff



Key Facts

Labor- and time-intensive underside inspection methods are a thing of the past. The innovative SecuScan system represents a revolution in safety engineering:

- Mobile and static system option
- Cost efficiency due to reduced constructional and personnel expenditures
- Fast dispatch of vehicles in moving traffic
- Modern software with compatibility to all current systems
- High image quality
- Zoom capabilities up to details of 5 mm (0.2”)
- Possibility to compare current and archived underside image of the same vehicle
- Documentation, archiving and evaluation of the recorded vehicle data

References

The Under Vehicle Monitoring System SecuScan has frequently proved its value as a high-performance safety system and has already been utilized worldwide. Some project examples are described in the following:

Government District, Berlin, Germany

In 2001, SecuScan has been successfully installed as access control system at buildings of the German Federal Government. Two static systems, one for cars and one especially for heavy-load vehicles, are providing security for the government officials.

Bureau of the German Federal Chancellor (Bundeskanzleramt), Berlin, Germany

In fall 2003, SecuScan has been installed as static system at the main access point to the Bundeskanzleramt. Here, the vehicle scanner is also part of a comprehensive access control system and inspects vehicles for potential safety risks.

Distrigas, Boston Harbor, USA

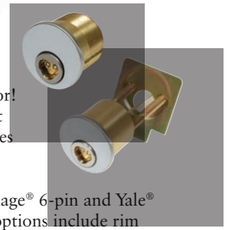
In 2004, two static SecuScan security systems have been implemented at the premises of the gas distribution company Distrigas at Boston Harbor. They are protecting this highly sensitive territory from dangerous objects. In consideration of the heavy delivery trucks, the systems have a special configuration for truck inspections.

Videx CyberLock®

One Key . . . Many Locks

Cylinders for Doorways

Enter the world of CyberLock through the front door! Videx cylinders for doorways are the first place most people begin. The cylinder cannot be picked, provides an audit trail of activity, and requires no wiring.



You can retrofit knob or lever locks that require Schlage® 6-pin and Yale® 6- or 7-pin format cylinders. Other door hardware options include rim and mortise cylinders in a variety of sizes and finishes.

Cylinders for Padlocks

One of the most useful and unique applications for CyberLock is in a padlock! Now you have an intelligent padlock to control access to your meters, control boxes, and outside gates. Videx manufactures weather-resistant cylinders designed specifically for padlocks. They resist corrosion, and hold up under rough treatment. The same key that opens the front door of your office now opens the padlock on your delivery truck or back gate.

IC Cylinders

The CyberLock line includes interchangeable core designs, well-known for their ease of installation into door and cabinet hardware. The small-format IC and Schlage-type large-format IC CyberLocks install using a special control key that can be programmed like any CyberKey in the system.

Cylinders for Cabinets

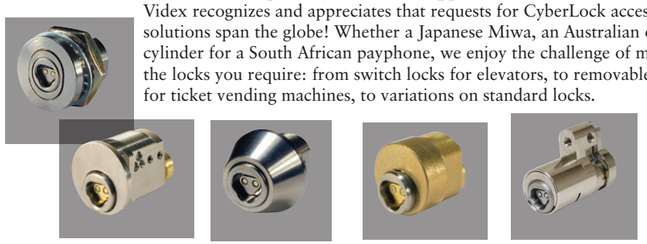
Cabinets, boxes, containers, and display cases all call for cam locks. Videx offers two standard cam locks, and a variety of custom designs. The CyberLock hook latch cam was originally designed for fare boxes on buses and light rail cars. Cam locks are found on jewelry display cases, medical cabinets, and server cabinets. No wiring required and full access control provided!

Cylinders for Vending Machines

CyberLock offers complete access control for your vending machines, providing a full audit trail of all activity. Everyone is accountable, every dime is accounted for! Whether you install CyberLock vending cylinders on one troublesome route, or on all your machines, you're in control.

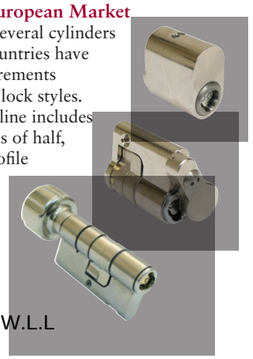
Cylinders for Specialty & Custom Applications

Videx recognizes and appreciates that requests for CyberLock access control solutions span the globe! Whether a Japanese Miwa, an Australian oval, or a cylinder for a South African payphone, we enjoy the challenge of manufacturing the locks you require: from switch locks for elevators, to removable plug locks for ticket vending machines, to variations on standard locks.



Cylinders for the European Market

Videx manufactures several cylinders for Europe, where countries have unique security requirements and a wide variety of lock styles. The Videx European line includes many different lengths of half, single, and double profile cylinders, as well as ovals, rounds, and several other designs.



United Express International W.L.L
Tel: 4750757 / 4758757
info@ueikwt.com

Communicating with CyberKeys

A variety of devices are available for communication between the keys and the software. These devices are called communicators. The type of communicator you use depends on the software management system you implement, and the requirements of your CyberLock installation.

CyberKey Base Station

The base station is a serial device that connects directly to your PC, and is used only with the Professional software.

CyberKey Authorizer

CyberKey Authorizer allows programming and downloading of keys from remote locations. When installed at the remote site, Authorizer connects back to the management software either on a local network or by modem. CyberKey Authorizer is used with Professional and Enterprise software.

IR Encoder

The IR Encoder is an infrared device that connects to a USB port. It links CyberKeys to the Lite or Enterprise software by making an infrared connection to the IR port on the CyberKeys.

Smart Phone

With the Enterprise system, user keys can be programmed on-demand in the field by making an infrared connection from the key to a smart phone. The cell phone receives the programming information from the Enterprise server, and sends the authorizations to the key.

Managing Your CyberLocks

There are four different levels of management for your CyberLock system: EntryPoint™, CyberAudit-Web Lite, CyberAudit Professional, and CyberAudit-Web Enterprise. This range of management tools is designed to accommodate every type of installation, from small businesses to large corporations and campus settings.

EntryPoint

EntryPoint is a basic system comprised of hardware only; no software is required. EntryPoint is ideal for simple installations that require high security: a lock that cannot be picked and a key that cannot be duplicated.

An EntryPoint system includes standard CyberLock cylinders and CyberKeys, plus a Grand Master key. The Grand Master has a pre-programmed encrypted code and is used to program locks and keys with this encrypted code. CyberKeys are given 24/7 access to the locks.

CyberAudit-Web Lite

CyberAudit-Web Lite is designed for EntryPoint users that want to add the ability to schedule access and view an audit trail from the locks and keys. Lite users log on to a web site to set their schedules and see their log of access events. A simple matrix of locks, keys, and schedules is easy to use and understand. The web site is also used to request a new encrypted code to prevent lost keys from opening locks.

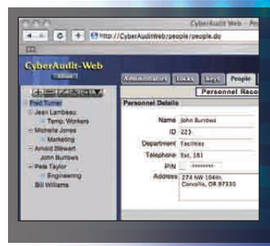
Lite uses the same hardware as the EntryPoint system, plus an IR Encoder for communication between the Grand Master and the web site. The Lite web site is available from certified providers.

CyberAudit Professional

CyberAudit Professional is a Windows program that installs on your PC for management of a CyberLock system. CyberAudit Professional builds on the basics of access scheduling and audit trails with a number of features such as key expirations, report generation, and email notification of events. It is ideal for small- to medium-sized companies that need a high level of security and key control.

CyberAudit-Web Enterprise

CyberAudit-Web Enterprise is packaged on a server complete with all hardware and software elements required to run the system. Enterprise is a feature-rich system that builds on the functionality of CyberAudit Professional, and is ideal for large or geographically widespread customers.



Software users can easily access Enterprise from any computer on a local network or the World Wide Web just by opening a web browser and logging on. With Enterprise, a hierarchy of administrators can be set, allowing each manager in the organization control over the locks, people, and keys in their area of responsibility. Enterprise supports a variety of methods for communication between the hardware and the software, including the use of cell phones to program user keys on demand in the field.

CyberLock—an innovative lock system that easily converts existing mechanical locks into an access control system. With electronic lock cylinders, programmable CyberKeys®, and CyberAudit® software, you can create a powerful system to track and control access to every lock in your facility.

How does it work?

CyberLock electronic cylinders replace standard mechanical cylinders. Each CyberLock cylinder is an electronic version of a standard mechanical lock cylinder. Installing the cylinder into the lock hardware is as simple as removing the existing mechanical cylinder and replacing it with the CyberLock cylinder.

No wiring or battery is required at the lock. The lock installs without wiring of any kind, and does not contain a battery. The power required to open a lock comes from the battery in the key. CyberKeys use a 3-volt lithium battery, easily replaced in the field.

CyberLocks cannot be picked. CyberLocks have no keyway, and cannot be picked like a mechanical lock. Dirt and moisture will not interfere with the operation of the cylinder. CyberLocks resist forced rotation, and are designed to remain in the locked position if tampered with.

CyberKeys cannot be duplicated. It's not possible to create a duplicate of a CyberKey. Passwords in the software and hardware are unique to each installation, and protect against creation of unauthorized keys. And, although two keys in the system can be programmed alike, each one will make its own unique record of events in the software.

Each key contains a list of locks it can open, with days and times. The CyberKeys are programmed with the access privileges for each user. A standard key holds a list of up to 3300 locks the user can open, with the schedule of days and times they are allowed in.

Keys can be assigned a begin date and an expiration date. This means keys can be issued before they begin working, and can be set to expire at a particular time in the future. Setting short-term expiration dates on keys is an excellent way to minimize risk due to lost or misplaced keys.

A record of all events is stored in both the locks and the keys. Each time a key is used at a lock, a record of the lock ID, date, and time is stored in the key, and a record of the key ID, date, and time is stored in the lock. The key stores up to 3900 of the most recent access events, and the lock stores the most recent 1100 access events. Locks and keys also record when an unauthorized person attempted to open the lock.

One key opens doorways, padlocks, cabinets, safes, vending machines, and more! The complete line of cylinders allows controlling access to much more than just doorways. Designed for both indoor and outdoor use, the durable CyberLock tracks and controls access to padlocked gates, safes, cash drawers, server cabinets, fare boxes, freight trucks, and vending machines . . .

Managing Your CyberLocks Feature Chart

		EntryPoint	CyberAudit-Web Lite	CyberAudit Professional	CyberAudit-Web Enterprise
Hardware	CyberLock	•	•	•	•
	CyberKey	•	•	•	•
	CyberPoint			•	•
	Grand Master	•	•		•
	IR Encoder		•		•
	CyberKey Base Station			•	
	Authorizer			•	•
	Cell Phone/Cellular PDA				•
	USB Programmer			•	
Software	Schedule Keys		•	•	•
	Standard		•	•	•
	CyberPoint			•	•
	One-Time Use			•	•
	Ignore Mode and Delay				•
	Fixed Use Countdown				•
	Audit Trail		•	•	•
	Expire Keys		•	•	•
	Master Keys			•	•
	Email Notification of Events			•	•
	Multiple Key Mode and Delay			•	•
	Web-based Software		•		•
	Hierarchy of Administrators				•
	Grouping of Locks and People				•
	Grouping of Access Permissions				•
	Key Expiration Email				•
	Low Battery Email Notification			•	•
	Missions				•
	Multiple Time Zones				•
	User Keys Download Locks		•		•
	User Keys Program Locks				•
	Reset Locks		•	•	•
	Lost Keys			•	•
	Re-Key/Reprogram		•	•	•
	Shared Locks				•
	Journal of Changes		•	•	•

Operating Temperature	• Lock: -40° to 160° F; -40° to 70° C non-condensing • Key: 32° to 122° F; 0° to 50° C
Cylinder Power Requirements	• None; power is supplied by the key's battery
Key Battery	• One CR-2 3v lithium battery
Key Battery Life	• 2000 to 5000 openings depending on settings

United Express International W.L.L
Tel: 4750757 / 4758757
info@ueikwt.com

CyberLock®

A Complete Access Control System in Every Lock Core

Videx®

TOA

Audio Product Range
Professional Sound
Public Address
TOA DAC
Mixers
Speakers
Amplifiers
Microphones
Voice Evacuation
Conference System
Wireless Microphones

Sound & Communication

Beschallungssysteme
Professional Sound
Elektroakustik
TOA DAC
Verstärker
Mikrofone
Voice Alarm
Lautsprecher
Funkmikrofone
Diskussionssystem

safe&sound

TOA

CFP range

2 to 8 zone EN54 conventional fire alarm panels

C-TEC

2-8 Zone EN54 Conventional Fire Alarm Panels

CFP range

Fully compliant with EN54 parts 2 and 4, C-TEC's CFP conventional fire alarm panel offers an array of user and installer friendly features.

Supplied in an attractive flush or surface mountable plastic enclosure, 2, 4 and 8 zone versions are available, each featuring four conventional sounder circuits, class change and alert inputs, two fire outputs, a fault output and a reset output.

A wide range of engineering functions are also provided including (depending on the model purchased) selectable zone delays, coincidence and non-latching zone facilities. Comprehensive test and fault finding facilities are also provided on all variants.

In addition to our standard and economy CFP panels, three LPCB approved versions are available. The LPCB stamp of approval is recognised worldwide and demonstrates that the CFP has been tested and certified as being compliant with EN54 parts 2 and 4 by the Loss Prevention Certification Board.

LPCB Ref. 176a
to BS EN 54 pts 2 & 4

CFP features

- Fully compliant with EN54 Parts 2 and 4
- Available with 2, 4 or 8 zone circuits
- Four conventional sounder circuits
- Standard, economy and LPCB approved versions available
- Installer-friendly design accommodates easy first fix and straightforward maintenance
- Attractive flush or surface mountable plastic lid and enclosure
- Auxiliary remote, auxiliary fire, fault and reset outputs
- 'Class change' and alert inputs
- Low quiescent current
- Intuitive user-friendly interface
- Multiple indicators
- End of line units included (one per zone)
- Optional keyswitch or push button access code entry to Access Levels 2 and 3
- Integral 1.5A switch mode PSU
- Detector and sounder circuits share common negative allowing straightforward three-wire retro-installation
- Ancillary connections provided for up to eight two-wire repeaters (one CFP761 network driver card required per system) and optional CFP relay boards. Ancillary connections are not provided on CFP economy panels.
- Wide range of engineering functions including (dependent on model purchased) zone test, coincidence, zone delay and non-latching zones. See chart below for details.

Which CFP?	Zone delay facility	Non-latching zones facility	Coincidence (double-knock) facility	Zone test facility	Fault diagnostic facilities	Ancillary connections for system expansion
CFP STANDARD PANELS	✔	✔	✔	✔	✔	✔
CFP ECONOMY PANELS	✗	✗	✗	✔	✔	✗
CFP LPCB APPROVED PANELS	✔	✗	✗	✔	✔	✔

This chart illustrates the different engineering functions available on the CFP range of fire panels

CFP Technical Specifications

Power Supply Specification

Mains supply voltage	230V 50/60Hz
Mains rated current	350mA maximum
Internal power supply	19V - 28.5V (27V nominal). Ripple 7V maximum (battery fault)
Total output current limited to	1.5A
Supply and battery charger monitored for failure	YES (battery charger is also temperature compensated)
Batteries monitored for disconnection and failure	YES
Batteries protected against deep discharge	YES (Deep discharge cut off approx. 21 volts)
Max. battery size and type	2 x 12V 3.3AHr VRLA (Valve Regulated Lead Acid) connected in series
Mains fuse	240V 1A HRC ceramic 20mm compliant with IEC (EN60127 PT2)
Battery fuse	1.6A F 20mm compliant with IEC (EN60127 PT2)
Current draw from battery (Mains failed)	1.5A maximum

Detector Circuit Specification

	CFP Standard Panels	CFP Economy Panels	CFP LPCB Approved Panels
Number of circuits	2 (CFP702-4 & CFP702-4K) 4 (CFP704-4 & CFP704-4K) 8 (CFP708-4 & CFP708-4K)	2 (CFP702E-4 & CFP702E-4K) 4 (CFP704E-4 & CFP704E-4K) 8 (CFP708E-4 & CFP708E-4K)	2 (CFP702-4/LPC) 4 (CFP704-4/LPC) 8 (CFP708-4/LPC)
Cable type	Fire resistant screened cable, minimum conductor size 1mm²		
Connector blocks	Plug-on type, largest acceptable conductor size 1.5mm²		
Max cable length per circuit	500 metres		
Line monitored for open circuit and short circuit	YES		
Line monitored for detector removal	YES - end of line monitoring device modules provided		
Maximum allowable impedance (each conductor)	20W		
Maximum cable capacitance	0.27mF		
Call point resistor value	470 to 680Ω		
Max. number of smoke/heat detectors per zone	25		
Max. combined number of detectors & manual call points	32 per zone		

Sounder Circuit Specification

Number of circuits	4
Cable type	Fire resistant screened cable, minimum conductor size 1mm²
Connector blocks	Plug-on type, largest acceptable conductor size 1.5mm²
Max cable length per circuit	500 metres
End of line resistor value	6800 5% Tol. 0.25W (blue, grey, red, gold)
Each circuit monitored for open and short circuit	YES
Alarm voltage	27V maximum, 20V minimum (final battery voltage)
Sounder circuit fuses (one per circuit)	Resetable type (200mA min. hold current; 400mA max. trip current; 50mA when tripped. Reset when faults removed)
Maximum total sounder output current to all outputs	4 x 200mA = 800mA
Maximum No. of bells @ 25mA	32
Maximum No. of electronic sounders @ 20mA	40 (sounders must be polarised)

Auxiliary Outputs

Type	Non monitored open collector transistor
Max. sink current	30mA each
Max. open circuit voltage	27Vd.c
Reset output	Active during reset cycle
Remote output	Active during any unsilenced fire condition (provided all relevant delays have expired)
Auxiliary output	Active during any fire condition (provided all relevant delays have expired)
Fault output	Active when no faults are present - failsafe to open circuit
24V aux power output (for use with the above)	Output protected by a resetable fuse (100mA min. hold current). Resets when fault removed

Auxiliary Inputs

Class Change (makes sounders sound continuously)	Connect to 0V to trigger. Max. input voltage 27V. (Non-latching)
Alert (makes sounders pulse intermittently)	Connect to 0V to trigger. Max. input voltage 27V. (Non-latching)

User & Engineer Controls

General user controls (access level one)	Mute internal sounder; Override delays; Enter access levels		
Authorised user controls (access level two)	Silence alarm sounders; Activate alarm sounders; Reset the system; Test the lamps; Disable/enable zones Disable /enable fault output; Disable/enable remote output,Disable/enable sounders, Disable/enable auxiliary output; Disable/enable output delays (not available on CFPE).		
Engineer controls (access level three)	**CFP Standard Panels** Program coincidence (double knock) Setup zones for non-latching operation Program delays Invoke one man walk test Enter fault diagnostic facilities	**CFP Economy Panels** Invoke one man walk test Enter fault diagnostic facilities	**CFP LPCB Approved Panels** Program delays Invoke one man walk test Enter fault diagnostic facilities

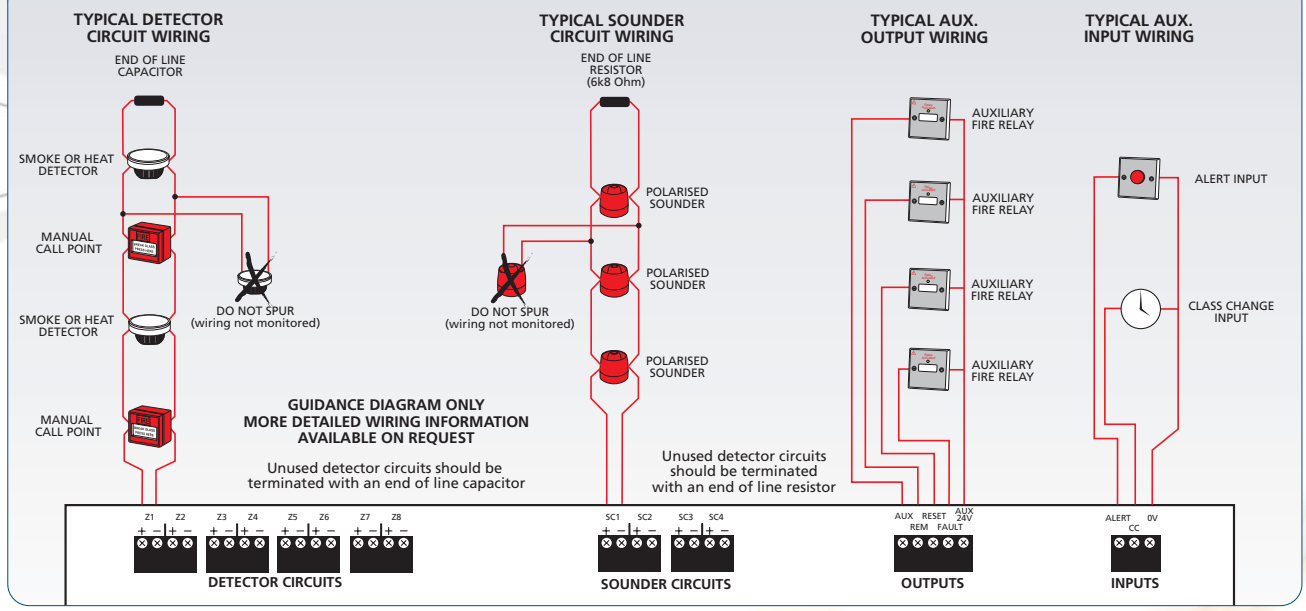
Indicators

External indicators	General fire; Zone fire; Zone fault; Zone disabled; Zone test; Supply present; Remote output activated; Remote output status; Test; Accessed; General disablement; Fault output status; General fault; System fault; Repeater fault (not available on CFPE); System status; Sounder status; Power supply fault; Auxiliary output status; Output delays (not available on CFPE).
Internal indicators	System fault (distinguishes between 'watchdog', 'site memory' and 'phase lock loop' faults); Zone fault (distinguishes between open circuit and short circuit faults); Hazardous voltages present; Repeater fault (indicates which repeaters, if fitted, are faulty - not available on CFPE)

Dimensions

Physical size	Size = 380 x 235 x 96mm approx.
Weight	1.75kg (without batteries)

TYPICAL WIRING


TYPICAL DETECTOR CIRCUIT WIRING
END OF LINE CAPACITOR
SMOKE OR HEAT DETECTOR
MANUAL CALL POINT
SMOKE OR HEAT DETECTOR
MANUAL CALL POINT
DO NOT SPUR (wiring not monitored)
TYPICAL SOUNDER CIRCUIT WIRING
END OF LINE RESISTOR (6k8 Ohm)
POLARISED SOUNDER
POLARISED SOUNDER
POLARISED SOUNDER
DO NOT SPUR (wiring not monitored)
TYPICAL AUX. OUTPUT WIRING
AUXILIARY FIRE RELAY
AUXILIARY FIRE RELAY
AUXILIARY FIRE RELAY
AUXILIARY FIRE RELAY
TYPICAL AUX. INPUT WIRING
ALERT INPUT
CLASS CHANGE INPUT
GUIDANCE DIAGRAM ONLY
MORE DETAILED WIRING INFORMATION AVAILABLE ON REQUEST
Unused detector circuits should be terminated with an end of line capacitor
Unused detector circuits should be terminated with an end of line resistor
Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8
DETECTOR CIRCUITS
SC1 SC2 SC3 SC4
SOUNDER CIRCUITS
AUX RESET REM AUX 24V FAULT
OUTPUTS
ALERT CC 0V
INPUTS

CFP STANDARD EN54 FIRE PANELS & ANCILLARIES

CFP702-4	CFP standard 2 zone panel, code entry version, does not extend
CFP702-4K	CFP standard 2 zone panel, keyswitch version, does not extend
CFP704-4	CFP standard 4 zone panel, code entry version, does not extend
CFP704-4K	CFP standard 4 zone panel, keyswitch version, does not extend
CFP708-4	CFP standard 8 zone panel, code entry version, does not extend
CFP708-4K	CFP standard 8 zone panel, keyswitch version, does not extend
CFP760	CFP 8 zone repeater panel, up to 8 per system, code entry version
CFP760K	CFP 8 zone repeater panel, up to 8 per system, keyswitch version
CFP761	CFP network driver card (one required per repeater system, fit at main)
CFP762	CFP relay output card (provides reset, fault, aux & remote relay outputs)
CFP763	CFP relay output per zone card (as CFP762 plus 8 output per zone relays)

CFP ECONOMY EN54 FIRE PANELS

Include all CFP standard panel features except coincidence, zone delay and non-latching zone facilities. CFP economy panels are not compatible with CFP repeaters or CFP relay output cards

CFP702E-4	CFP economy 2 zone panel, code entry version, does not extend
CFP702E-4K	CFP economy 2 zone panel, keyswitch version, does not extend
CFP704E-4	CFP economy 4 zone panel, code entry version, does not extend
CFP704E-4K	CFP economy 4 zone panel, keyswitch version, does not extend
CFP708E-4	CFP economy 8 zone panel, code entry version, does not extend
CFP708E-4K	CFP economy 8 zone panel, keyswitch version, does not extend

CFP LPCB APPROVED EN54 FIRE PANELS

Include all CFP standard panel features except coincidence & non-latching zone facilities.

CFP702-4/LPC	CFP 2 zone panel, LPCB approved to EN54-2/4, does not extend, code entry
CFP704-4/LPC	CFP 4 zone panel, LPCB approved to EN54-2/4, does not extend, code entry
CFP708-4/LPC	CFP 8 zone panel, LPCB approved to EN54-2/4, does not extend, code entry

LPCB Ref. 176a
to BS EN 54 pts 2 & 4

Quality System Certificate No: 176
Assessed to ISO9001 : 1994

British Fire Protection Systems Association

Manufactured by
C-TEC, Stephens Way, Wigan, WN3 6PH. England

UK Sales Desk:
Tel: 01942 322744. Fax: 01942 829867
Email: sales@c-tec.co.uk

European Sales Desk:
Tel: +44 1942 322744. Fax: +44 1942 829867
Email: eu.exports@c-tec.co.uk

Export Sales Desk:
Tel: +44 161 257 2541. Fax: +44 161 225 8817
Email: xportsales@xportsales.com

Visit our website at **www.c-tec.co.uk**

DISTRIBUTED BY

©2003 Errors and omissions excepted.
C-TEC operates a policy of continuous improvement and we reserve the right to alter product specifications at our discretion and without prior notice. Approved Document No. DFS0380434 Rev 2

biostation

Innovative Fingerprint Terminal

FVC2004 No.1 Fingerprint Recognition Algorithm

| BIOSTATION | Incorporating Suprema's industry-leading fingerprint recognition algorithm, BIOSTATION offers a perfect solution for time attendance and access control.

With a color LCD and high quality sound, BIOSTATION provides a different level of user interaction using multimedia information. Versatile interface options including wireless LAN and USB memory slot enable easy network integration and data transfer without any wiring.

SUPREMA

biostation

Innovative Fingerprint Terminal

2.5" 16M Color LCD
Display messages, video, animation and photos to convey various information and notices

Wi-Fi Wireless LAN
Easy network integration and data transfer from PC using wireless network without cabling

Industry leading fingerprint identification speed and capacity
Identify 3,000 fingerprints in 1 second and store maximum 50,000 fingerprints and 500,000 events in internal memory

USB memory slot
Easy data transfer to PC or other BIOSTATIONs using a USB memory device

High quality sound
16 bit Hi-Fi sound for background music, sound effect and voice instruction.

Applications

- Time attendance and access control for offices
- Integrated payroll and HR management of employees
- Networked security for IBS buildings, financial and research institutes
- Data collection for customer reward management

Model Information

Product Type	Fingerprint Sensor		
	OC(optical)	TC(capacitive)	FC(thermal)
Basic Model	BST-OC	BST-TC	BST-FC
Wireless option	BSTW-OC	BSTW-TC	BSTW-FC
RF option	BSR-OC	BSR-TC	NA
Wireless + RF	BSRW-OC	BSRW-TC	NA

Specifications

- CPU : Dual CPU (32bit RISC + 400MHz DSP)
- Memory : 34MB flash + 34MB RAM
- Display : 2.5" QVGA 16M Color LCD
- Fingerprint identification speed : 3,000 match in 1 second
- Fingerprint capacity : 50,000 fingerprint templates
- Log capacity : 500,000 events
- RF card : 125KHz proximity (optional)
- Network interface : Wireless LAN (optional), TCP/IP, RS485
- PC interface : USB, RS232
- USB memory slot : USB Host
- Output relay : Deadbolt, EM lock, door strike, automatic door
- Wiegand I/O, 4 TTL I/O
- Microphone and speaker for door phone
- Navigation key for menu movement
- 4 Function keys for user-defined functions
- Operation modes : Fingerprint, PIN, PIN + Fingerprint, Card, Card + Fingerprint, Card + PIN (RF model)
- Size : 135 x 128 x 50mm (W x H x D)

Securing Today for a Profitable Tomorrow

EAS Products Catalog

Systems – Deactivators – Detachers – Tags

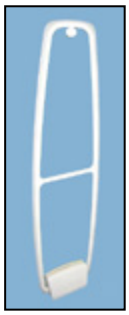
Catalog No. 082205B

WG Security Products Inc.
3031 Tisch Way, Suite 602
San Jose, CA 95128 (USA)

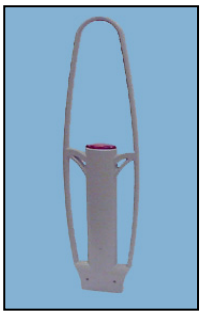
Tel: 408-241-8000 • Toll Free: 877-494-2288 • Fax: 408-241-8082

sales@wgspi.com • http://www.wgspi.com

AM EAS Systems



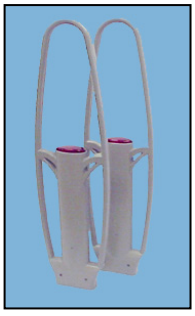
Premier Line



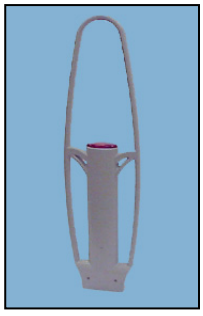
Plus Line

Door-Guard

Sky-Guard



Multi-Guard



Mono-Guard

Pro-Guard

Uni-Guard

WG Security Products Inc. • 3031 Tisch Way, Suite 602 • San Jose, CA 95128 (USA)
Tel: 408-251-8000 • Toll Free 877-494-2288 • Fax: 408-241-8082 • info@wgspi.com • http://www.wgspi.com